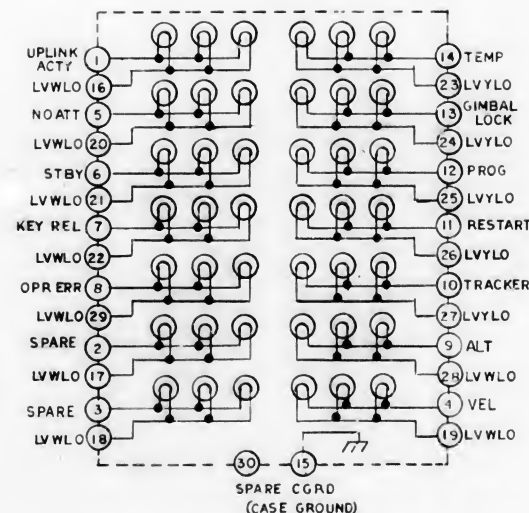


MODERN BLUE PRINT CO., INC. 02840

INITIAL RELEASE CLASS A
PER TORR 36704

3. DESIGN:

9. BULBS SHALL BE CONFORMALLY COATED WITH A SOFT SETTING PLASTIC BEFORE EMBEDDMENT TO RELIEVE POTTING STRESS ON BULBS. THE PLASTIC AND/OR SOLVENTS SHALL BE AS NEGOTIATED PER ND 1015404, CLASS NO. 2.
- VENDOR SUPPLIED DOCUMENTATION:
- THE VENDOR SHALL RECORD AND SUPPLY CERTIFICATES OF PERFORMANCE DATA FOR THE FOLLOWING READINGS ON EACH DISPLAY:
- A. BRIGHTNESS PER PARAGRAPH 2.A.(5)
 - B. POWER DISSIPATION PER PARAGRAPH 2.B.(1).
 - C. DIELECTRIC WITHSTANDING VOLTAGE PER PARAGRAPH 2.3(2).
 - D. INSULATION RESISTANCE TEST PER PARAGRAPH 2.B.(3).
 - E. ISOLATION PER PARAGRAPH 2.A(6).
 - F. PANEL COLOR AND MARKING PER PARAGRAPH 2.A(4).
- BULB BURN-IN: BULBS SHALL BE BURN-IN FOR A MINIMUM OF 300 HOURS AT 50 VDC.



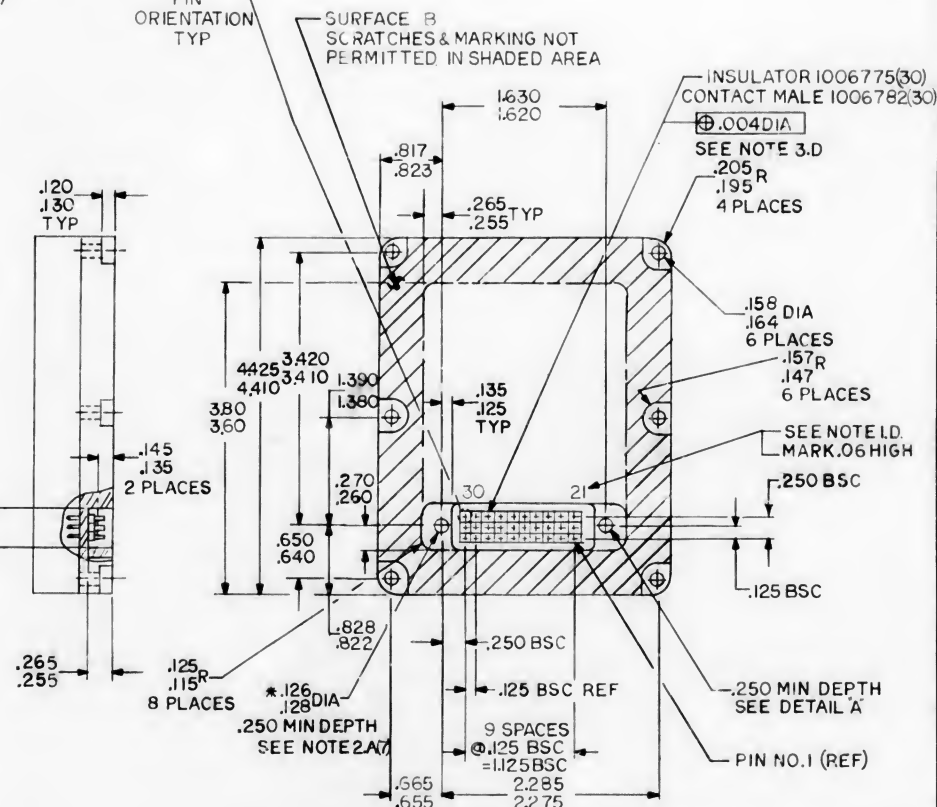
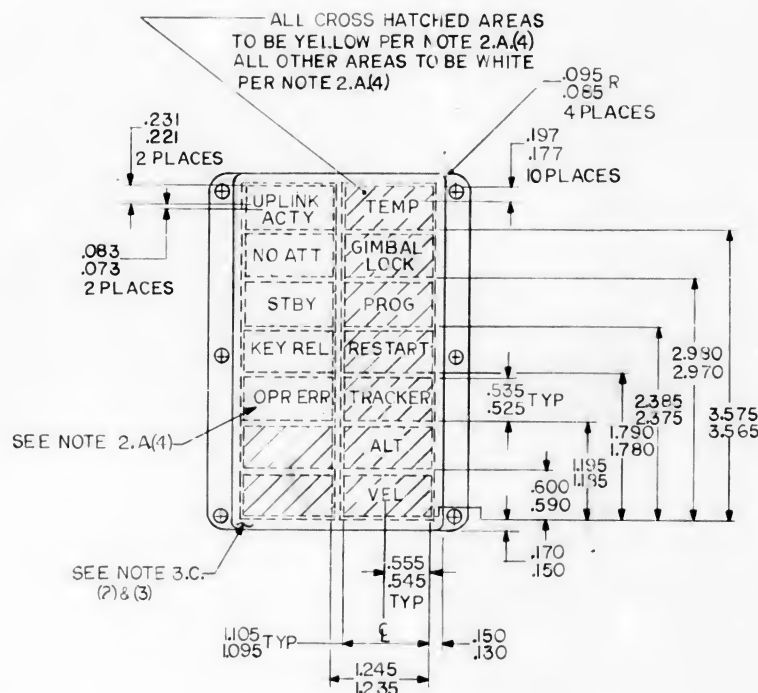
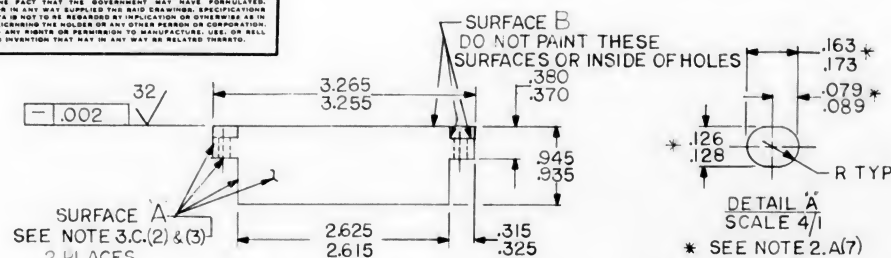
5. CONSTRUCTION:
- A. BULBS TO BE USED SHALL MEET THE REQUIREMENTS OF MS 24367, AND SHALL BE SCREENED FOR THE FOLLOWING DEFECTS:
- (1) SURFACE CRACKS.
 - (2) SCRATCHES AND TOOL MARKS.
 - (3) RAW UNPOLISHED GLASS EDGES IN FINAL SEAL AREA.
- BULBS WHICH EXHIBIT THESE DEFECTS SHALL NOT BE USED IN DISPLAYS SUPPLIED TO THIS SPECIFICATION.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ f
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
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DO NOT SCALE THIS DRAWING

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| NEXT ASSY | USED ON |
| APPLICATION | |

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|----------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------|-----------------------------------------------------------------------------------|------------------|-------------------------------|
| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | | FIN NO. |
| LIST OF MATERIALS | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>W. J. [Signature]</i> CHECKED <i>[Signature]</i> APPROVED <i>[Signature]</i> APPROVED <i>[Signature]</i> | | | INDICATOR STATUS/CAUTION SPECIFICATION CONTROL DRAWING | | |
| APPROVED <i>[Signature]</i> MSC | | | CODE IDENT NO 80230 | SIZE C | DRAWING NO. 1005025 |
| DATE | | | SCALE NONE | | SHEET 2 OF 3 |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR A PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITE GOVERNMENT-RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE OR BE OBLIGATED TO FURNISH SUCH DATA DOES NOT CONSTITUTE AN IMPLICATION OR SUGGESTION OF THE QUALITY OF OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION TO REPRODUCE OR TRANSMIT IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE UNITED STATES GOVERNMENT. NO PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.



| | | | | |
|------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------|--------------------------------|-------------------------------|
| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | NO. |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>H.S. Hall</i> CHECKED <i>Ed. C. Hall</i> APPROVED <i>Ed. C. Hall</i> APPROVED <i>D.G. Hoag</i> | | INDICATOR STATUS/CAUTION SPECIFICATION CONTROL DRAWING | | |
| APPROVED <i>CCB</i> APPROVED <i>MSC</i> | | CODE IDENT NO. 80230 | SIZE C | DRAWING NO. 1005025 |
| DATE | | SCALE <i>1/1</i> | SHEET <i>3</i> OF <i>3</i> | |

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NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT WILL NOT BE RESPONSIBLE FOR ANY DELAY, INJURY, LOSS, OR DAMAGE, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWING, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER ENDORSING THE DESIGN OR ANY OTHER DESIGN OR CONSTRUCTION, OR CONFIRMING ANY RIGHTS OR PERMISSIONS TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY MIL-D-70327.
- WIRE DESCRIBED HEREIN SHALL MEET THE REQUIREMENTS OF NEMA STANDARD MW-17, HEAVY INSULATION, AND MIL-W-583, TYPE T2
- SUPPLIERS SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.
- MARKING: UNIT SPOOLS/REELS AND SHIPPING CONTAINERS SHALL BE MARKED INTERNALLY AND/OR EXTERNALLY, PER MIL-STD-129, WITH THE MANUFACTURER'S NAME, IDENTIFYING NUMBER, ITEM DESCRIPTION AND NASA PART NUMBER (DRAWING NUMBER, REVISION LETTER AND DASH NUMBER).

2. ACCEPTANCE AND INSPECTION:

- ELECTRICAL CHARACTERISTICS:
 - DIELECTRIC STRENGTH: 1500 VOLTS RMS/MIL MINIMUM
- MECHANICAL:
 - VISUAL AND MECHANICAL: IN ACCORDANCE WITH NEMA MW-17 AND MIL-W-583 AND THIS DRAWING
- CERTIFICATION: COMPLIANCE WITH MATERIAL REQUIREMENTS SHALL BE CERTIFIED WITH EACH SHIPMENT.

3. DESIGN:

- OPERATING TEMPERATURE: 105° MAX
- CONSTRUCTION:
 - CONDUCTOR: SOLID, ROUND COPPER WIRE
 - INSULATION: VINYL-ACETAL RESIN-BAKED VARNISH
 - JACKET: HEAT-STABILIZED PLASTIC FILM (NYLON).

TABLE I

| DASH NO. | SIZE AWG | WIRE DIMENSIONS | | |
|----------|----------|-----------------------|-------------------------------------|--------------------------|
| | | BARE WIRE DIA MAX/MIN | MINIMUM DIA INCREASE FOR INSULATION | MAXIMUM OVERALL DIAMETER |
| -1 | NO. 34 | .0064 .0062 | .0010 | .0078 |
| -2 | NO. 38 | .0041 .0039 | .0007 | .0051 |

1006275

REVISIONS

| SYM | DESCRIPTION | DATE | APPROVAL |
|-----|----------------------------------------|--------|----------|
| — | INITIAL RELEASE CLASS A PER TDRR 11224 | 7/1/64 | WJL |

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------|-----------------------------|------------------|
| QTY REQD | | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE | | WIRE, ELECTRICAL MAGNET FILM INSULATION (T2) SPECIFICATION CONTROL DRAWING | | |
| HEAT TREATMENT | | NASA APPROVAL | CODE IDENT NO. | NASA DRAWING NO. |
| FINAL FINISH | | MIT APPROVAL | SIZE C | 1006275 |
| APPLICATION | | MIT APPROVAL | SCALE NONE | WT |
| NEXT ASSY | USED ON | SHEET 1 OF 1 | | |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY AND NO OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWING, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

81E9001

REVISIONS 15621

| SYM | DESCRIPTION | DATE | APPROVAL |
|-----|-------------------------------------|-------|------------|
| | INITIAL RELEASE CLASS A PER TDRR | 15621 | 1/19/65 WK |

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- ADHESIVE COVERED BY THIS DRAWING SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF MIL-P-19834A WHEN USED IN CONJUNCTION WITH A SUITABLE NAMEPLATE SUBSTITUTE.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 3.
- ROLL MARKING: THE INSIDE DIAMETER OR EDGE OF EACH ROLL BOBBIN SHALL BE MARKED IN ACCORDANCE WITH ND 1002019 WITH THE NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS I.
 - SHIPPING CONTAINERS SHALL BE MARKED IN ACCORDANCE WITH PARAGRAPHS 3.5.1 & 3.5.2 OF ND 1002215.
 - ALL PACKAGES SHALL BE MARKED WITH THE DATE OF MANUFACTURE OR CODE AS WELL AS OTHER MARKING.

2. ACCEPTANCE & INSPECTION:

A. MECHANICAL PROPERTIES:

- DIMENSIONS: 1.00 ± 0.03 INCHES WIDE X 60 YARDS LONG.
- EDGE ADHESION: SHALL MEET THE REQUIREMENTS OF MIL-P-19834A WHEN APPLIED TO A NAMEPLATE SUBSTITUTE PER THAT SPECIFICATION.

B. VENDOR SUPPLIED DATA: EACH SHIPMENT OF ROLLS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.

- CERTIFICATE OF COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF MIL-P-19834A.

3. DESIGN:

- STORAGE LIFE: 6 MONTHS MINIMUM WHEN STORED AT TEMPERATURES BETWEEN 35°F AND 80°F AND AT RELATIVE HUMIDITIES ABOVE 35%. STORAGE IN UNOPENED ORIGINAL CONTAINERS WILL INCREASE SHELF LIFE.
- CONSTRUCTION: PRESSURE-SENSITIVE SYNTHETIC ADHESIVE COATED ONTO A SILICONE TRIFATED PAPER RELEASE (TRANSFER) TAPE. RELEASE TAPE MUST HOLD ADHESIVE WHEN BEING UNROLLED BUT SEPARATE EASILY WHEN ADHESIVE IS APPLIED TO ANOTHER SURFACE.
- SPACECRAFT CREW COMPARTMENTS: ONLY THOSE MATERIALS, COMPOSITIONS, AND COMPOSITES FOUND TO BE NON-TOXIC AND NONFLAMMABLE WHEN TESTED AS SPECIFIED IN ND 1002251 AND ND 1002252 SHALL BE APPROVED FOR USE IN SPACECRAFT CREW COMPARTMENTS.
- INTENDED USE: ADHESIVE FILM, IN TAPE FORM, WHICH CAN BE TRANSFERRED TO MOST CLEAN SURFACES TO PROVIDE A PRESSURE-SENSITIVE ADHESIVE MOUNTING SURFACE. SOME POLYETHYLENES MAY BE EXCEPTIONS, IN THAT ADHESION MAY NOT BE PARTICULARLY GOOD.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------|-----------------------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DWS. NO. CONTRACT DRAWN <i>D. J. R. 1/12/65</i> CHECKED <i>R. T. D. 1/12/65</i> APPROVAL <i>A. D. M. 1/12/65</i> APPROVAL <i>C. H. 1/12/65</i> | | ADHESIVE, PRESSURE-SENSITIVE FILM-RELEASE PAPER MOUNTED SPECIFICATION CONTROL DRAWING | |
| NASA APPROVAL <i>A. J. R. 1-19-65</i> MIT APPROVAL MIT APPROVAL <i>W. J. 1/19/65</i> | | CODE IDENT NO. SIZE C | NASA DRAWING NO. 1006318 |
| SCALE NONE | | WT | SHEET 1 OF 1 |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREIN INCURS NO RESPONSIBILITY FOR ANY OMISSION, WHATSOEVER, AND THE FACT THAT THE GOVERNMENT HAS FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING THE ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY MIL-D-70327.
- THIS MATERIAL SHALL MEET THE GENERAL REQUIREMENTS OF MIL-I-23053, CLASS 6 EXCEPT AS, AND IN ADDITION TO THE REQUIREMENTS, SPECIFIED HEREIN.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 3.
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS I.

- SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN ND 1002215.
- UNIT PACKAGES SHALL BE CONSIDERED SPOOLS AND ADEQUATE BOXES FOR COILS AND FOLDED LENGTHS.

2. ACCEPTANCE AND INSPECTION (TESTS TO BE PERFORMED ON DIMENSIONALLY RECOVERED SAMPLES UNLESS OTHERWISE SPECIFIED):

A. MECHANICAL PROPERTIES:

- COLOR: IN ACCORDANCE WITH CLASS I OF MIL-STD-104 AS SPECIFIED IN TABLE I HEREIN.
- APPEARANCE: IN ACCORDANCE WITH MIL-I-23053.
- DIMENSIONS: IN ACCORDANCE WITH TABLE I HEREIN.

B. ELECTRICAL CHARACTERISTICS:

- DIELECTRIC WITHSTANDING VOLTAGE: IN ACCORDANCE WITH MIL-I-23053 (500 VRMS/MIL MINIMUM).
- DISSIPATION FACTOR: 0.0003 MAXIMUM WHEN TESTED UP TO 1.0 MEGACYCLE IN ACCORDANCE WITH FED-STD-406, METHOD 4031

C. VENDOR SUPPLIED DATA: EACH SHIPMENT OF MATERIAL SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.

- CERTIFICATE OF COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF MIL-I-23053, CLASS 6 WITH THE EXCEPTION OF A MATERIAL MODIFICATION, AS-RECEIVED DIMENSIONAL DIFFERENCES, AND HEAT RESISTANT TEMPERATURE DIFFERENCE, ALL OF WHICH SHOULD BE CERTIFIED TO THIS DRAWING.

3. DESIGN:

- MATERIAL: COPOLYMER OF TETRAFLUOROETHYLENE AND HEXAFLUOROPROPYLENE WHICH HAS BEEN STRETCHED.

THIS SLEEVING SHALL MEET THE REQUIREMENTS OF MIL-I-23053 EXCEPT FOR SHRINK (RECOVERY) TEMPERATURE, HEAT RESISTANCE, AND AS-RECEIVED DIMENSIONS.

UPON APPLICATION OF HEAT (SEE TABLE II), THE SLEEVING SHOULD RECOVER ITS ORIGINAL DIMENSIONS AS LISTED IN TABLE I.

WHEN TESTING DIMENSIONAL RECOVERY (PARAGRAPH 4.5.24 OF MIL-I-23053) USE 200° ± 5°C (392° ± 9°F) FOR 5 MINUTES.

WHEN TESTING HEAT RESISTANCE (PARAGRAPH 4.5.3.10 OF MIL-I-23053) USE 232°C FOR 96 HOURS.

- TEMPERATURE-RECOVERY-TIME CHARACTERISTIC: SLEEVING SHALL RECOVER A KNOWN PERCENTAGE OF THE DIFFERENCE BETWEEN THE AS-RECEIVED SIZE AND RECOVERED SIZE WHEN A KNOWN TEMPERATURE IS APPLIED FOR A PERIOD OF TIME SUFFICIENT TO BRING THE WHOLE MASS (PART BEING COVERED + SLEEVING) UP TO THAT TEMPERATURE. NORMALLY, 5-15 SECONDS IS ALL THAT IS REQUIRED TO ACCOMPLISH WHATEVER AMOUNT OF RECOVERY WILL OCCUR AT THAT TEMPERATURE. FURTHER TIME APPLICATION WILL NOT SHRINK THE SLEEVING FURTHER FOR A GIVEN TEMPERATURE. THEREFORE PERCENT RECOVERY IS A FUNCTION OF TEMPERATURE AND APPROXIMATE VALUES ARE SHOWN IN TABLE II.

| TABLE I - DASH NO. VS COLOR VS SIZE | | | | | | | | | | |
|-------------------------------------|------|------|------|------|------|---------------------------------|-------------------------------------------|----------------------------|------------------------|--------------------------------|
| DASH NO. VS COLOR | | | | | | SIZE (INCHES) | | | | |
| CLEAR | BLK | WHT | RED | YEL | BLU | NOMINAL SIZE AWG/ DIA. | EXPANDED INSIDE DIAMETER MINIMUM | RECOVERED DIMENSIONS (TYP) | | |
| | | | | | | | | INSIDE DIA. MAXIMUM | WALL THICK- NESS | WALL THICKNESS TOLERANCE |
| -001 | -026 | -051 | -076 | -101 | -126 | NO. 24 | .031 | .027 | .008 | ↑ ±.002 |
| -002 | -027 | -052 | -077 | -102 | -127 | NO. 22 | .036 | .032 | .008 | |
| -003 | -028 | -053 | -078 | -103 | -128 | NO. 20 | .045 | .039 | .008 | |
| -004 | -029 | -054 | -079 | -104 | -129 | NO. 18 | .060 | .049 | .008 | |
| -005 | -030 | -055 | -080 | -105 | -130 | NO. 16 | .075 | .061 | .009 | |
| -006 | -031 | -056 | -081 | -106 | -131 | NO. 14 | .092 | .072 | .009 | |
| -007 | -032 | -057 | -082 | -107 | -132 | NO. 12 | .115 | .089 | .009 | ↑ ±.002 |
| -008 | -033 | -058 | -083 | -108 | -133 | NO. 10 | .141 | .114 | .010 | ↑ ±.003 |
| -009 | -034 | -059 | -084 | -109 | -134 | NO. 9 | .158 | .124 | .010 | ↑ ±.003 |
| -010 | -035 | -060 | -085 | -110 | -135 | NO. 8 | .180 | .143 | .010 | ↑ ±.003 |
| -011 | -036 | -061 | -086 | -111 | -136 | NO. 7 | .197 | .158 | .011 | ↑ ±.004 |
| -012 | -037 | -062 | -087 | -112 | -137 | NO. 6 | .225 | .180 | .011 | ↑ ±.004 |
| -013 | -038 | -063 | -088 | -113 | -138 | NO. 5 | .248 | .198 | .011 | ↑ ±.004 |
| -014 | -039 | -064 | -089 | -114 | -139 | NO. 4 | .290 | .226 | .011 | |
| -015 | -040 | -065 | -090 | -115 | -140 | NO. 3 | .310 | .249 | .011 | |
| -016 | -041 | -066 | -091 | -116 | -141 | NO. 2 | .365 | .280 | .012 | ↑ |
| -017 | -042 | -067 | -092 | -117 | -142 | NO. 1 | .400 | .311 | .012 | |
| -018 | -043 | -068 | -093 | -118 | -143 | NO. 0 | .440 | .349 | .012 | |
| -019 | -044 | -069 | -094 | -119 | -144 | 3/8 | .500 | .383 | .015 | |
| -020 | -045 | -070 | -095 | -120 | -145 | 7/16 | .580 | .448 | .020 | ↑ |
| -021 | -046 | -071 | -096 | -121 | -146 | 1/2 | .666 | .510 | .020 | |
| -022 | -047 | -072 | -097 | -122 | -147 | 5/8 | .830 | .637 | .025 | |
| -023 | -048 | -073 | -098 | -123 | -148 | 3/4 | 1.000 | .764 | .030 | ↑ |
| -024 | -049 | -074 | -099 | -124 | -149 | 7/8 | 1.170 | .891 | .035 | |
| -025 | -050 | -075 | -100 | -125 | -150 | 1" | 1.330 | 1.020 | .035 | |

| TABLE II | |
|-------------|----------------------|
| TEMPERATURE | % RECOVERY |
| BELOW 250°F | VERY LITTLE |
| 250°F | 50% |
| 300°F | 80% |
| 350°F | 100% |
| ABOVE 350°F | NO FURTHER SHRINKING |

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

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| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DWS. NO. <i>23m</i> CHECKED <i>A. Caggiano 11 Jan 65</i> APPROVAL <i>Eden C Hall 29 Jan 65</i> | | INSULATION SLEEVING, ELECTRICAL, HEAT-SHRINKABLE (TEFLON-FEP) SPECIFICATION CONTROL DRAWING | |
| NACA APPROVAL <i>W. R. Rapp 2/4/65</i> MIT APPROVAL <i>W. R. Rapp 2/4/65</i> | | CODE IDENT NO. <i>C</i> | NASA DRAWING NO. 1006322 |
| SCALE NONE | | WT | SHEET 1 OF 1 |

| REVISIONS | | | | | | |
|-----------|------|-------------------------------------------|------|-----|---------|----------|
| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
| — | | INITIAL RELEASE CLASS A PER TDRR 20235 | | | 6-22-65 | |
| A | | REVISED PER TDRR 23457 | | | 11/2/65 | WIK |
| B | | REVISED PER TDRR 33708 | FIN. | OWN | 7-4-66 | |

1. GENERAL:

1. GENERAL:
- A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 3.
 - C. MARKING: CARTONS AND INDIVIDUAL TUBES SHALL BE MARKED PER MIL-STD-129 WITH THE MANUFACTURER'S NAME, PRODUCT DESIGNATION, NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER) DATE OF MANUFACTURE AND EXPIRATION DATE.
 - D. PREPARATION FOR DELIVERY: PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH THE BEST COMMERCIAL PRACTICE.

(10) DISSIPATION FACTOR: PER ASTM METHOD D150.

60 TO 10^6 CPS: 0.0029 ± 0.0005

- ## 2. ACCEPTANCE AND INSPECTION: SAMPLE

- A. MARKING: AS SPECIFIED HEREIN.

- ### B. PROPERTIES BEFORE CURING:

- (1) APPEARANCE: PER TABLE I.
- (2) ODOR: ACETIC ACID (VINEGAR).
- (3) SOLIDS CONTENT: CONTAINS NO SOLVENT. -92% SOLIDS MINIMUM, BY WEIGHT, RETAINED WHEN TESTED 24 HOURS @ $15^{\circ} \pm 2^{\circ}\text{F}$ IN CIRCULATING AIR OVEN.
- (4) FLOW OR SAG: 0.1 INCH MAXIMUM WHEN TESTED PER MII-S-8802.

- ### 3. DESIGN:

- A. THIS MATERIAL IS A ONE PART ROOM-TEMPERATURE VULCANIZING SILICONE RUBBER ADHESIVE SEALANT COMPOUND REQUIRING NO ADDITIONAL CURING AGENT ADDITIVE.
- B. PROPERTIES AFTER CURING FOR ONE WEEK AT 77° ± 2°F AND 50% RELATIVE HUMIDITY.
- (1) HARDNESS, SHORE A: 25 TO 40 PER ASTM METHOD D676.
 - (2) TENSILE STRENGTH: 300 PSI MINIMUM PER ASTM METHOD D412.
 - (3) ELONGATION: 300% MINIMUM PER ASTM METHOD D412.
 - (4) TEAR RESISTANCE: 30 LB./INCH MIN./INCH PER ASTM METHOD D624, DIE B.
 - (5) LINEAR SHRINKAGE: 1% MAXIMUM.
 - (6) SPECIFIC GRAVITY: 1.07 ± 0.2 PER ASTM METHOD D297.
 - (7) VOLUME RESISTIVITY: 1×10^{15} MINIMUM OHM-CM PER ASTM METHOD D257.
 - (8) DIELECTRIC STRENGTH: PER ASTM METHOD D149. (SHORT TIME TEST) 75 MIL. SHEET THICKNESS, 1" ELECTRODE: 1" IN LENGTH WITH EDGES ROUNDED TO A RADIUS OF 1/8"; IN TRANSFORMER OIL: 300 VOLTS/MIL; MIN., @ 77° ± 2°F.
 - (9) DIELECTRIC CONSTANT: PER ASTM METHOD D150.
 - (a) AT 60 CPS: 2.8 TO 3.2
 - (b) AT 1.0 MC: 2.8 TO 3.2

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING

TABLE I

| DASH NO. | COLOR |
|----------|-------------|
| -000 | WHITE PASTE |
| -001 | BLACK |
| -002 | TRANSPARENT |
| -003 | ALUMINUM |

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| NEXT ASSY | USED ON |
| APPLICATION | |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ f
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
 \pm \pm \pm
DO NOT SCALE THIS DRAWING

SEE NOTE

| | | | | | |
|------------------------------------------------|-------------------------|--------------------------------------------|--------------------------------|------------------------|------------|
| QTY REQD | PART IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | | FIN NO. |
| LIST OF MATERIALS | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DRAWN <i>R. H. H. 12/8/61</i> | 30 MAR 62 | SEALING COMPOUND, SILICONE RUBBER | | | |
| CHECKED <i>J. H. H. 1/19/65</i> | | | | | |
| APPROVED | | | | | |
| APPROVED <i>E. C. H. 1/19/65</i> | 21 JUN 65 | | | | |
| APPROVED MIT <i>W. J. H. 1/19/65</i> | | 22 JUL 65 | SPECIFICATION CONTROL DRAWING | | |
| APPROVED MSC <i>J. H. H. 1/19/65</i> | | DATE | SCALE NONE | DRAWING NO. 1006338 | |
| | | | | SHEET | OF |

4
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE, OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FURNISHED SUCH DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE IN ANY MANNER LICENSE THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEY ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY MIL-D-70327.
- PARTS DESCRIBED HEREIN SHALL CONFORM TO ALL THE APPLICABLE REQUIREMENTS OF MIL-C-26482 FOR BAYONET COUPLING, NUT MOUNTING, CLASS H SEAL, PIN CONTACT CONNECTORS WITH SHELL AND INSERT SIZES AS DELINEATED ON THIS DRAWING.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.
- PARTS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIREMENTS OF MIL-C-26482.
- PIECE MARKING: CONNECTORS SHALL BE PERMANENTLY AND LEGIBLY MARKED, IN ACCORDANCE WITH ND 1002019, WITH THE MANUFACTURER'S NAME AND/OR SYMBOL AND NASA PART NUMBER (DRAWING NUMBER, REVISION LETTER AND DASH NUMBER). OTHER MANUFACTURER'S INFORMATION MAY APPEAR ON THE PARTS.
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS 1, CODE 3.
 - MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN ND 1002215.

2. ACCEPTANCE AND INSPECTION:

- DIMENSIONS: AS DELINEATED HEREIN.
- ELECTRICAL CHARACTERISTICS:
 - INSULATION RESISTANCE: MIL-STD-202, METHOD 302, CONDITION B.
AT 25°C: 5000 MEGOHMS MINIMUM AT 500 VDC
 - DIELECTRIC WITHSTANDING VOLTAGE: MIL-STD-202, METHOD 301.
375 VRMS AT 70,000 FT ALTITUDE. 1500 VRMS AT SEA LEVEL.
- VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION:
 - CERTIFICATE OF COMPLIANCE WITH ALL DESIGN REQUIREMENTS.
 - CERTIFICATE OF COMPLIANCE WITH ND 1015404, CLASS 2.
 - CERTIFICATE OF COMPLIANCE WITH HERMETIC SEAL REQUIREMENT.
- PINS: SIZE NO. 22 (.029 ± .001) DIA.
- TERMINALS SHALL BE IDENTIFIED ON BOTH SIDES OF BODY.

3. DESIGN:

- OPERATING LIFE (DURABILITY): 500 CYCLES OF ENGAGEMENT MINIMUM. (USING PLUG 1010929)
- ELECTRICAL CHARACTERISTICS:
 - CONTACT CURRENT RATINGS: 3 AMPERES MAXIMUM.
 - VOLTAGE RATING: 250 VOLTS RMS OR 350 VDC.
 - CONTACT RESISTANCE: 50 MILLIVOLTS AT 3 AMPERES. 150 MICROVOLTS AT 10 MILLIAMPS WHEN MATED WITH 1010929.
 - INSULATION RESISTANCE (PER 2B1) 50 MEGOHMS MINIMUM AT 125°C.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

C. MECHANICAL REQUIREMENTS:

- COUPLING MECHANISM: BAYONET LOCK.
- ENGAGING FORCE: 40 LBS. MAX.
DISENGAGING FORCE: 3.75 MIN.
- MOUNTING: SHALL MOUNT TO A .125 MAXIMUM PANEL.
- CONTACT RETENTION: 75 LBS. MIN IN DIRECTION OF MATING FORCES.
- CONTACT SPACING: .080 CENTER TO CENTER.
- INSERT RETENTION: 100 PSI STATIC LOAD FOR 5 MINUTES.

D. MATERIAL & FINISH

- SHELL: MILD COLD ROLLED STEEL. GOLD PLATE PER MIL-G-45204, TYPE II .000100/.000200 NICKEL PLATE PER QQN-290
- INSERT: VITREOUS DIELECTRIC PER MIL-C-26482.
- CONTACTS: NICKEL IRON ALLOY (51% NICKEL, BALANCE IRON), GOLD PLATE PER MIL-G-45204 TYPE II, CLASS 2, OVER COPPER PLATE PER MIL-C-14550, CLASS 3.
- RESILIENT INSERT: FLUORINATED SILICON RUBBER.

E. AIR LEAKAGE: .1 MICRON CUBIC FOOT PER HOUR WHEN

SUBJECTED TO A PRESSURE DIFFERENTIAL OF 15 ± .3 PSI ACROSS THE CONNECTOR IN ACCORDANCE WITH MIL-C-26482.

F. ACCESSORY PARTS

- MATING PLUG: IN ACCORDANCE WITH SCD 1010929.

REVISIONS

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|----------------------------------|----|-----|---------|----------|
| - | | INITIAL RELEASE CLASS A PER IDRR | | | 9-21-65 | |

22580

| | | |
|-------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING |
| | | MATERIAL |
| | | SEE NOTE |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| QTY REQD | PART OR IDENTIFY'NG NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|---------------------------------------------|-------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------|--------------|
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN | J. Doty GB | 17 JUL 65 | CONNECTOR, RECEPTACLE, ELECTRICAL, HERMETIC SEAL SPECIFICATION CONTROL DRAWING | |
| CHECKED | G. E. Egan | 23 JUL 65 | | |
| APPROVED | | | | |
| APPROVED | E. C. Hall | 21 SEP 65 | | |
| APPROVED | M. G. Mundy | 9-21-65 | CODE IDENT NO. | DRAWING NO. |
| MIT | | | 80230 | 1006361 |
| APPROVED | Arthur C. Egan | | SIZE | |
| MSC | | | C | |
| | | DATE | SCALE NONE | SHEET 1 OF 2 |

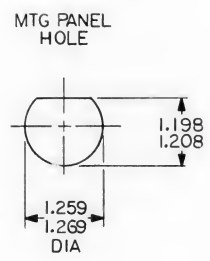
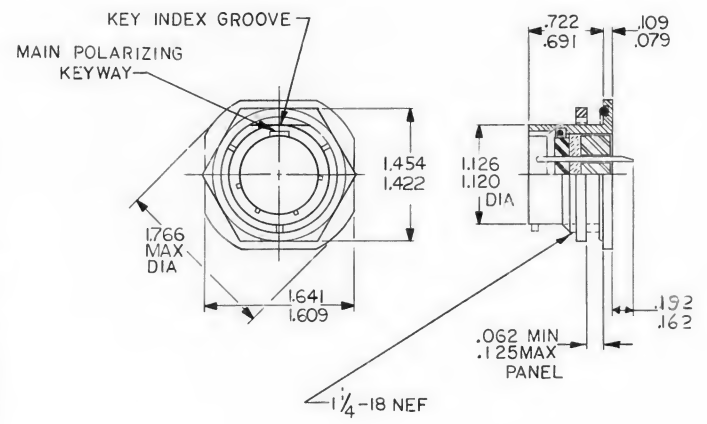
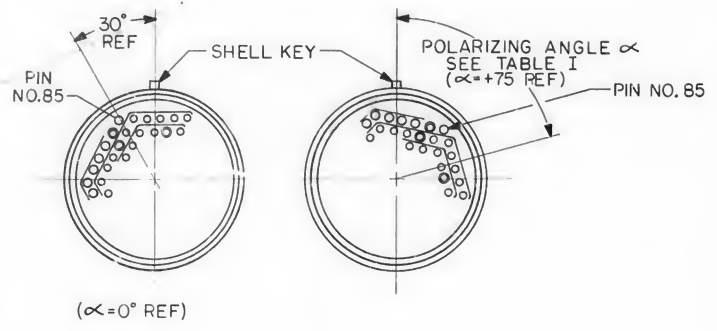
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSION, WRITING, ERROR, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERE TO.

REVISIONS

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|-------------------------------------|----|-----|---------|----------|
| - | | INITIAL RELEASE CLASS A PER TDRR | | | 9-21-65 | |

TABLE I

| DASH NO. (PINS) + ∞ | INSERT POLARIZING ANGLE ∞ | CONTACTS ACCOMMODATED | SHELL SIZE |
|-------------------------------|-------------------------------------|-----------------------|------------|
| -001 | 0° | 85 | 18 |
| -002 | 225° | | |
| -003 | 150° | | |
| -004 | 75° | | |



| | | |
|-------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING |
| | | MATERIAL |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| | | | | |
|----------|-------------------------|-------------------|--------------------------------------------------------|----------|
| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| | | | LIST OF MATERIALS | |
| | | | MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | |
| | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | | | CONNECTOR, RECEPTACLE, ELECTRICAL, HERMETIC SEAL | |
| | | | SPECIFICATION CONTROL DRAWING | |
| | | | DRAWN <i>L. Doty</i> GB 17 JUL 65 | |
| | | | CHECKED <i>G. J. ...</i> 23 JUL 65 | |
| | | | APPROVED <i>E. ...</i> | |
| | | | APPROVED <i>E. ...</i> | |
| | | | APPROVED MIT <i>M. ...</i> 9-21-65 | |
| | | | APPROVED MSC <i>...</i> | |
| | | | CODE IDENT NO. 80230 | |
| | | | SIZE C | |
| | | | DRAWING NO. 1006361 | |
| | | | DATE 9-21-65 | |
| | | | SCALE NONE | |
| | | | SHEET 2 OF 2 | |

3

1

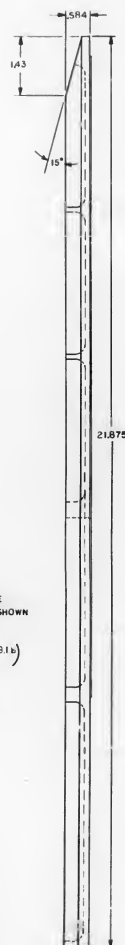
.03 R
ALL AROUND

SEE NOTE 2 & 1A, REF
= .001 ONLY

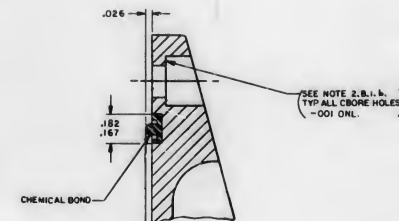
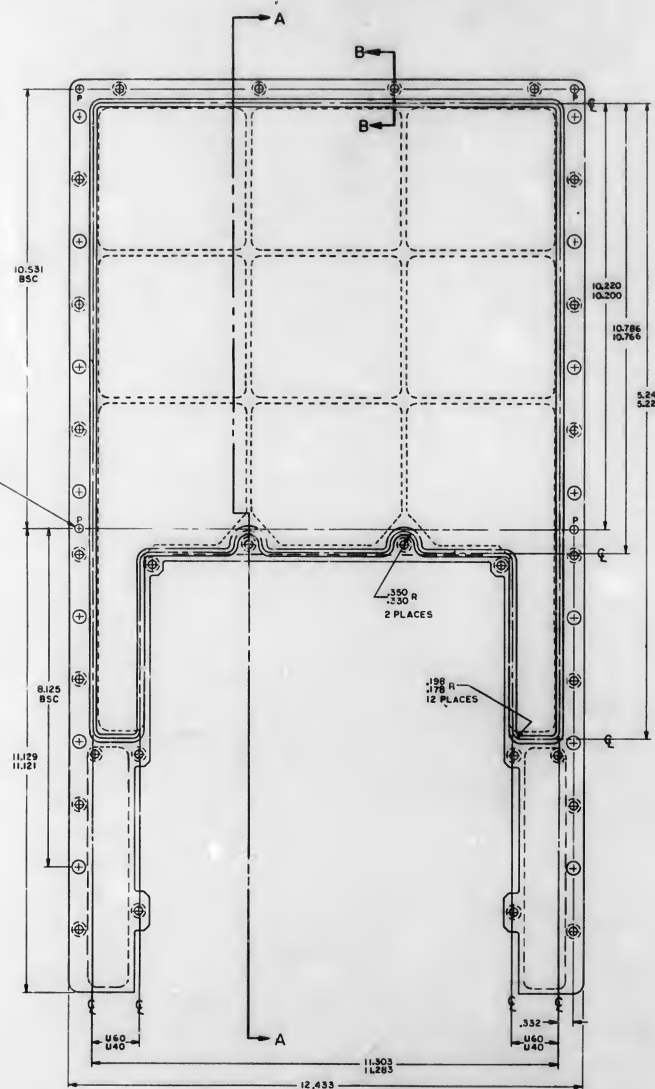
.001 REF

.143 TYP

15 TYP



A cross-sectional view of a bolted joint. A vertical bolt passes through two plates. The top plate has a semi-circular notch at its top edge. The bottom plate has a semi-circular protrusion at its bottom edge. The bolt head is located between the two plates. A dimension line indicates the diameter of the hole in the bottom plate as .090 TYP.



SECTION B-E
SCALE 4/1

Ⓐ REPLACES REV - WITH CHANGE

[illegible]

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS "PRESCRIBED BY MIL-B-70327
- SUPPLIER SHALL CONFORM TO QUALITY ASSURANCE PROVISIONS SPECIFIED IN N101540A, CLASS 3.
- PRESERVATION, PACKAGING, PACKING, AND CONTAINER MARKING PER N1002215, CLASS 1 CODE 4

2. INSPECTION AND ACCEPTANCE:

- MATERIAL:
 - SEE CHART
 - SCALE: BUTYL RUBBER PER AMS 3230.
- FINISH:
 - RETAINER:
 - SEE CHART
 - SEE REMARKS COLUMN IN CHART
- SURFACE ROUGHNESS SHALL BE 125 PER MIL-STD-10 UNLESS OTHERWISE SPECIFIED.
- REMOVE ALL BURS AND BREAK SHARP EDGES.
- ALL INSIDE RADII TO BE .25 SPHERICAL.
- VENDOR SHALL SUPPLY CURE DATE OF ELASTOMER

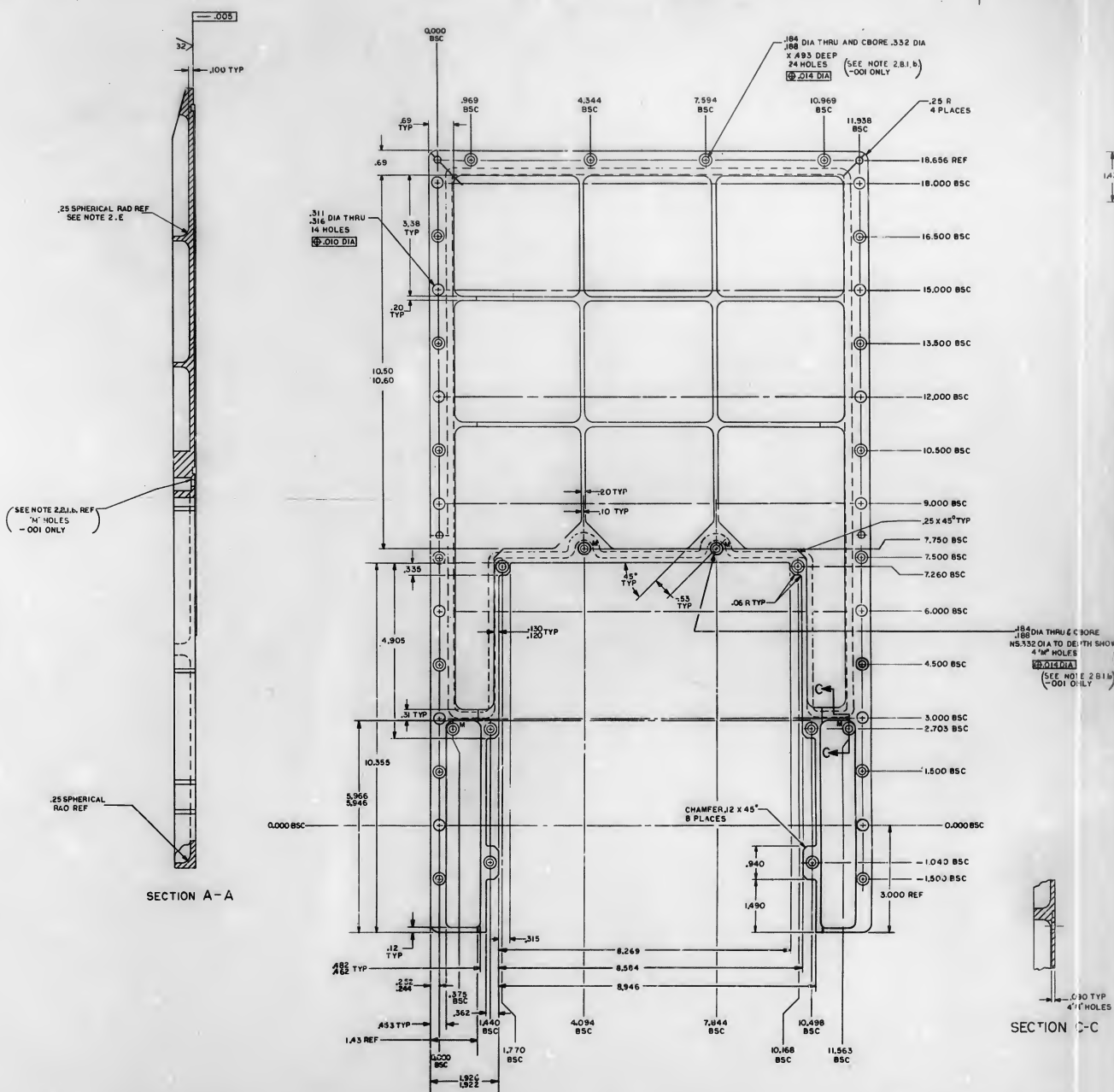
3. DESIGN:

- MAX. OPERATING TEMPERATURE: +200°F
- OPERATING PRESSURE: 0-17 PSI DIFFERENTIAL
- MEDIUM SEALED: 90% NITROGEN 10% HELIUM
- VACUUM SERVICE: 10⁻⁶ TORR
- SEALING: WHEN PROPERLY INSTALLED AND COMPRESSED TO THE PLATE LEVEL (ZERO DEFLECTION OF NOTING FLANGE), THE RUBBER SHALL BE CAPABLE OF SEALING AGAINST A LEAKAGE OF 10⁻⁸ ATM CC/SEC/INCH OF SEAL OR DRY NITROGEN AT A PRESSURE DIFFERENTIAL OF 1 ATMOSPHERE.

| PART NO. | MATERIAL | FINISH | REMARKS |
|-------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1006373-001 | MAGNESIUM AZ 31B-H24 PER QQ-M-44COND H24 | FINISH PER _____ | SURFACE SHALL BE FREE OF ANODIZE. TREAT SURFACE INDICATED PER DO NOT EPOXY COAT, ELECTRICAL BONDING REQUIRED |
| 1006378-002 | ALUM-6061-T6 PER Q3-A-250/11 TEMP 6 | CHROMATE PER MIL-C-5541, TYPE II GRADE C, CLASS 3 | |

SECTION A-A

PROCURE ONLY FROM APPROVED SOURCES LISTED ON N1002038 FOR THIS DRAWING.



SECTION C-C

1006378

C

1006422

REQUIREMENTS:

1. GENERAL:

- UNITS SHALL MEET THE REQUIREMENTS OF MIL-C-22443 (HEP) TYPE I, CLASS 1, STYLE D WITH THE ADDITIONS AND EXCEPTIONS SPECIFIED HEREIN. SUBMITTAL OF A PREPRODUCTION SAMPLE SHALL NOT BE REQUIRED.
- THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN MIL-Q-9859.
- UNITS SHALL BE DESIGNED TO MEET THE APOLLO ENVIRONMENTAL CRITERIA SPECIFICATION DATED MARCH 25, 1963 OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MANNED SPACECRAFT CENTER, HOUSTON, TEXAS, PARAGRAPHS 3.2.1 THROUGH 3.2.1.16 WITH THE FOLLOWING EXCEPTIONS:
 - PARAGRAPH 3.2.1.9.2 DUST
 - PARAGRAPH 3.2.1.9.1 SAND, SIZE LESS THAN .005 INCH
- MARKING: UNITS SHALL BE MARKED IN ACCORDANCE WITH MD 1001019 AND AS SPECIFIED HEREIN. UNLESS OTHERWISE SPECIFIED MARKING SHALL BE SILK-SCREENED USING RED COLOR IN ACCORDANCE WITH FEDERAL STANDARD AND 595 COLOR NUMBER 21105.
 - MARK IN LOCATION INDICATED ON DRAWING "DESICCATED - DO NOT OPEN UNTIL READY FOR USE OR INSPECTION".
 - MARK ON TOP PANEL OF COVER "CAUTION - DELICATE ELECTRONIC ASSEMBLY - THIS SIDE UP".
 - MARK IN LOCATION INDICATED ON DRAWING "CAUTION - SECURE ALL LATCHES BEFORE LIFTING". THE WORD CAUTION SHALL BE PRINTED IN .25 INCH HIGH CHARACTERS AND THE REMAINING WORDS SHALL BE PRINTED IN .19 INCH CHARACTERS.

(4) EACH CONTAINER SHALL HAVE IDENTIFICATION PLATE 1004260-210 IN THE LOCATION INDICATED HEREON. SERIALIZATION PER MD 1002923.

- THE BOTTOM CUSHION IN THE CONTAINER SHALL BE PROVIDED WITH TWO PERMANENTLY ATTACHED METAL PLATES OR EQUIVALENT IN LOCATIONS INDICATED ON DRAWING SPECIFYING THE DESICCANT REQUIREMENT.
- MARK IN LOCATION INDICATED ON DRAWING "INSPECT EQUIPMENT AND RE-PLACE DESICCANT IF INDICATOR IS PINK".
- MARK ADJACENT TO EACH TIE DOWN AND LIFT RING "SLING LIFT HERE".
- MARK IN LOCATION INDICATED ON DRAWING "TWO-WAY AUTOMATIC RELIEF VALVE. DEPRESS CORE BEFORE OPENING CONTAINER".

E. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH MD 1002215, CLASS 1, CODE 6.

(1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN MD 1002215.

2. ACCEPTANCE AND INSPECTION: 100 PERCENT

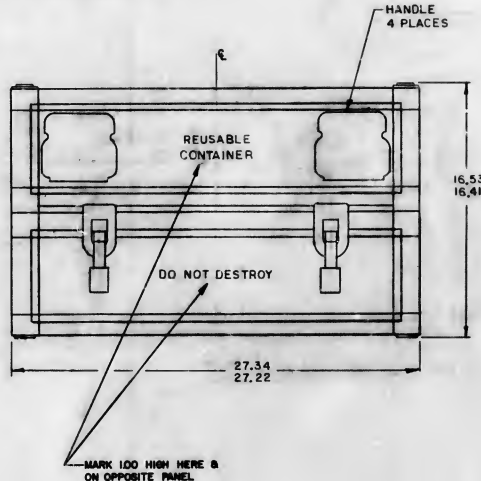
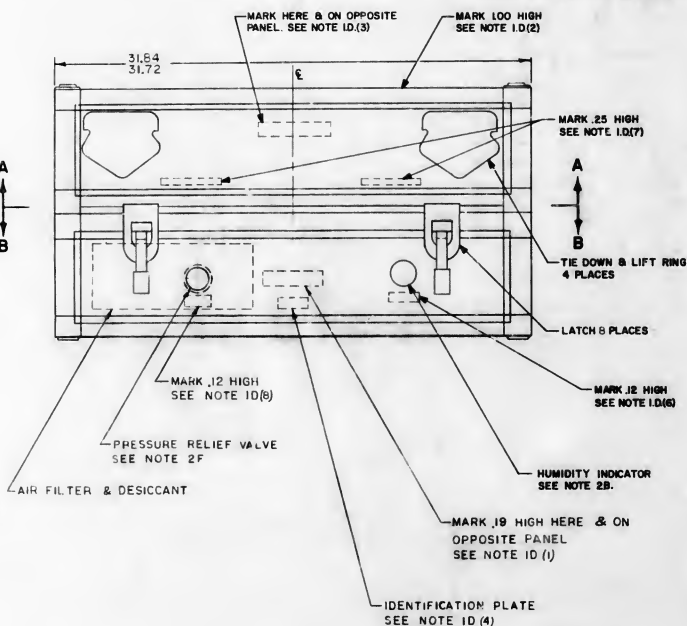
- A CERTIFICATE OF COMPLIANCE WITH ALL THE REQUIREMENTS SPECIFIED HEREIN SHALL ACCOMPANY EACH SHIPMENT.
- UNITS SHALL BE PROVIDED WITH A HUMIDITY INDICATOR IN ACCORDANCE WITH MIL-I-24060.
- UNITS SHALL BE PROVIDED WITH A DESICCANT HOLDER AND AIR FILTER LOCATED BEHIND PRESSURE RELIEF VALVE.
- SECURITY SEAL: PROVISION SHALL BE MADE SO THAT LATCHES CAN BE SECURED WITH A MULTI-STRAND WIRE-LEAD SEAL.

- UNITS SHALL BE PROVIDED WITH POLYURETHANE FOAM CUSHIONS BONDED TO THE INTERIOR SURFACES IN THE CONFIGURATION INDICATED ON DRAWING. DENSITY OF POLYURETHANE FOAM SHALL BE 2-1/2 POUNDS PER CUBIC FOOT.
- UNITS SHALL BE PROVIDED WITH AN AUTOMATIC PRESSURE RELIEF VALVE TO RELIEVE PRESSURE DIFFERENTIALS IN EXCESS OF 0.5 PSI.

3. DESIGN:

- FINISH: FINISH SHALL BE IN ACCORDANCE WITH MIL-C-22443 EXCEPT ZINC CHROMIATE PRIMER PER MIL-P-8585 SHALL BE FOLLOWED BY 2 COATS OF ENAMEL PER NASA DRAWING 1016194.

ALL DIMENSIONS ARE GIVEN IN TERMS OF INSIDE MEASUREMENT FROM PANEL TO PANEL.



ORIGINAL SOURCE OF SUPPLY:
ZERO MFG. CO.
BURBANK, CALIFORNIA
R5404 (MODIFIED)

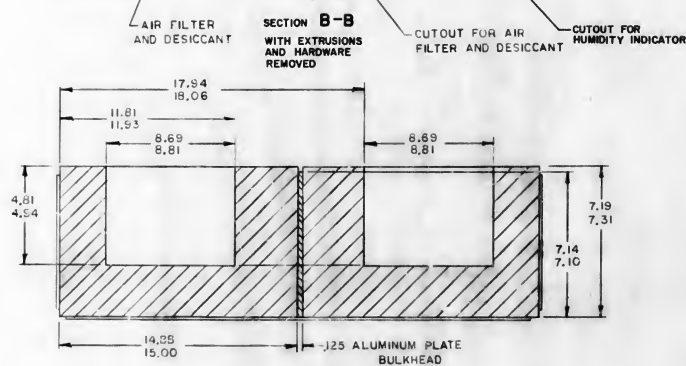
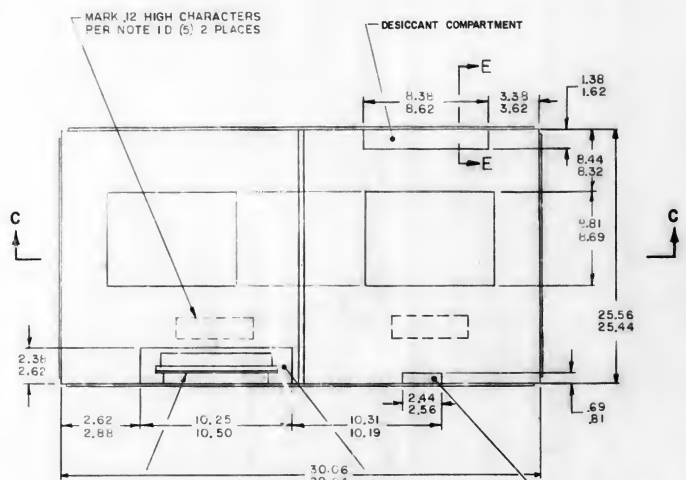
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

| REVISIONS | | | |
|-----------|---------------------------------------------------------------|----------|----------|
| SYM | DESCRIPTION | DATE | APPROVED |
| 0 | RELEASED PER CCA R2558 | 10/1/65 | Officer |
| 1 | CHANGED PER CCA R25457 DR. R. B. CHAMBERLAIN APPD 10/11/65 | 10/11/65 | Officer |
| 2 | CLASS A RELEASED PER TOPR 24524 | 65 | Officer |
| A | CHANGED PER TOPR 25035 DR. R. B. CHAMBERLAIN APPD 10/11/65 | 65 | Officer |

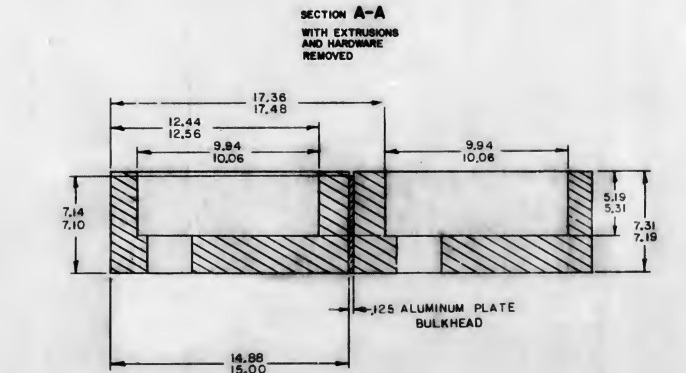
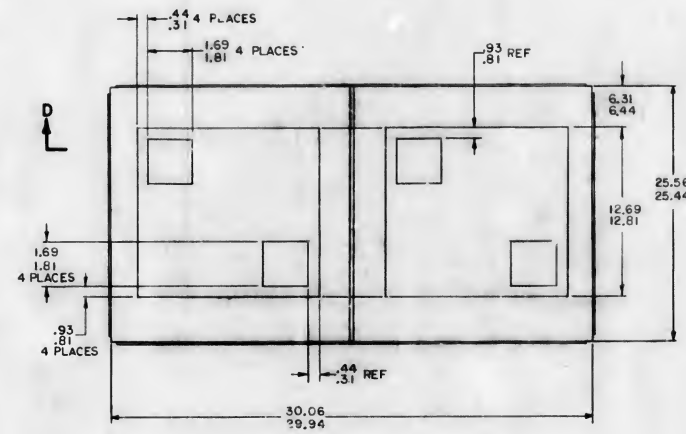
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO |
|------------------------------------|-------------------------|-----------------------------|---------|
| LIST OF MATERIALS | | | |
| RAYTHEON CO. LEWISTON, MASS. | | | |
| CONTRACT NO. 100-0-0000 | | | |
| DRAWN BY: J. B. CHAMBERLAIN | | | |
| CHECKED BY: J. B. CHAMBERLAIN | | | |
| APPROVAL BY: J. B. CHAMBERLAIN | | | |
| APPROVAL BY: J. B. CHAMBERLAIN | | | |
| NASA APPROVAL BY: G. M. NUTZGER | | | |
| MIT APPROVAL BY: J. B. CHAMBERLAIN | | | |
| MIT APPROVAL BY: J. B. CHAMBERLAIN | | | |
| NEXT ASSY USED ON | | APPLICATION | |
| SEE NOTE | | SCALE NONE | |
| CODE IDENT NO. 49956 | | NASA DRAWING NO. 1006422 | |
| SHEET 1 OF 2 | | SHEET 1 OF 2 | |

1006422

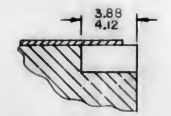
| REVISIONS | | | |
|-----------|----------------------------------------------------------------------------------|----------|--------------|
| SYM | DESCRIPTION | DATE | APPROVED |
| B | RELEASED PER CCA 125599 | 10/1/65 | J. H. HARRIS |
| I | CHANGED PER CCA R25457 DRAWING CHK <i>[Signature]</i> APPD <i>[Signature]</i> | 11/11/65 | J. H. HARRIS |
| - | CLASS A RELEASED PER TDRR 24524 | | |
| A | CHANGED PER TDRR 25035 DRAWING CHK <i>[Signature]</i> APPD <i>[Signature]</i> | 1/16/66 | J. H. HARRIS |



SECTION C-C



SECTION D-D



SECTION E-E

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

| | | | |
|----------------------------------------------------------|-------------------------|-----------------------------|----------|
| QTY REQ | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| CONTAINER, SHIPPING AND STORAGE APOLLO UNIVERSAL DSKY | | | |
| SOURCE CONTROL DRAWING | | | |
| CODE IDENT NO. 1 SIZE | | | |
| 49956 D 1006422 | | | |
| SCALE NONE | | | |
| SHEET 2 OF 2 | | | |

| | |
|-----------------------------------------------------------------------------------------------------|---------------------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES | DATE 10/1/65 |
| DRAWN <i>[Signature]</i> | CHECKED <i>[Signature]</i> |
| APPROVAL <i>[Signature]</i> | MIT APPROVAL <i>[Signature]</i> |
| DO NOT SCALE DRAWING | |
| MATERIAL | |
| NEXT ASSY | USED ON |
| APPLICATION | |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSION, MISSTATEMENT, AND THE FACT THAT THE GOVERNMENT HAS FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWING, SPECIFICATION, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 3.
- MARKING: CONTAINERS SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-129 WITH THE QUANTITY OF PARTS, MANUFACTURER'S NAME, AND/OR SYMBOL, LOT OR SERIAL NUMBER, DATE OF MANUFACTURE OR CODING, NASA DRAWING NUMBER, REVISION LETTER AND DASH NUMBER.

2. ACCEPTANCE AND INSPECTION:

A. MECHANICAL PROPERTIES:

- DIMENSIONS AND TOLERANCE: SEE TABLE I.
- MATERIAL: INSERT AND TANG, CORROSION RESISTANT STEEL IN ACCORDANCE WITH MIL-S-7720, CLASS 303, CONDITION B.
- FINISH: PASSIVATED PER MIL-S-5002.
- INTERNAL THREADS SHALL CONFORM TO MIL-S-7742.

3. DESIGN:

- LOCKING TORQUE SHALL BE AS SPECIFIED BY MIL-N-25027. (SELF-LOCKING ONLY)
- SHALL HAVE A DRY FILM LUBRICANT PER MIL-L-8937 (SELF-LOCKING ONLY)

4. ENGINEERING REFERENCE INFORMATION:

- 4.1 WHEN INSTALLING INSERTS IN BERYLLIUM USE TAP HOLE SIZE IN COLUMN B. FOR OTHER SOFTER MATERIALS USE TAP HOLE SIZE IN COLUMN A.

TABLE I

| DASH NO. | DIMENSIONS | | | | | FIGURE |
|----------|-----------------|-------------------|--------------------------|--------------------------------------------|--|--------|
| | INTERNAL THREAD | EXTERNAL THREAD | L & L ₁ ±.010 | TAP HOLE SIZE COLUMN A COLUMN B SEE NOTE 4 | | |
| -1 | 2-56UNC-3B | 8-32UNC-2A | .12 | .143-.147 .146-.148 | | I |
| -2 | 4-40UNC-3B | 10-32UNF-2A | .16 | .160-.164 .166-.168 | | I |
| -3 | 6-32UNC-3B | 12-28UNF-2A | .170 | .186-.190 .195-.197 | | I |
| -4 | 2-56UNC-3B | 6-40UNF-3A | .10 | .119-.122 .124-.126 | | I |
| -5 | 8-32UNC-3B | 1/4-28UNF-2A MOD | .170 | .227-.231 .240-.242 | | I |
| -6 | 2-56UNC-3B | 8-32UNC-2A | .12 | .139-.143 .146-.148 | | II |
| -7 | 4-40UNC-3B | 10-32UNF-2A | .16 | .160-.164 .166-.168 | | II |
| -8 | 6-32UNC-3B | 12-28UNF-2A | .170 | .186-.190 .195-.197 | | II |
| -9 | 2-56UNC-3B | 6-40UNF-3A | .10 | .119-.122 .124-.126 | | II |
| -10 | 8-32UNC-3B | 1/4-28UNF-2A MOD. | .170 | .227-.231 .240-.242 | | II |

PRESS FIT TO HOLD TANGS IN PRIOR TO ASSY



FIGURE I
(SELF LOCKING)

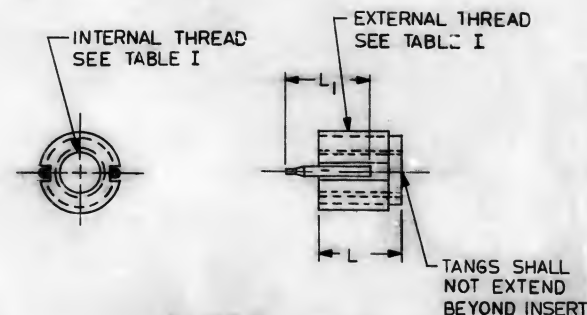
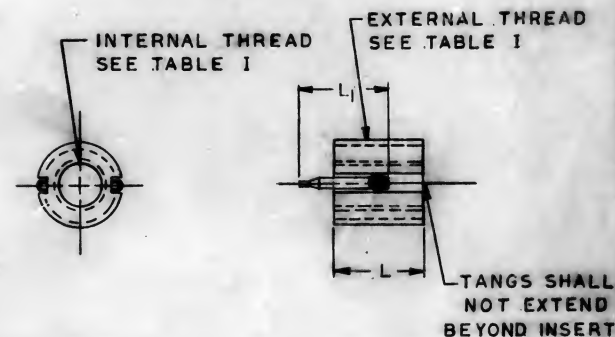


FIGURE II
(NON SELF LOCKING)



PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

| | | | | | | | |
|------------------------------------------------|--|-------------------------|--|--------------------------------------------|--|----------|--|
| QTY REQD | | PART OR IDENTIFYING NO. | | NOMENCLATURE OR DESCRIPTION | | FIND NO. | |
| LIST OF MATERIALS | | | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DRAWN: <i>[Signature]</i> DATE: <i>7/24/63</i> | | | | INSERT, THREADED | | | |
| CHECKED: <i>[Signature]</i> | | | | SPECIFICATION CONTROL DRAWING | | | |
| APPROVAL: <i>[Signature]</i> 7/24/63 | | | | CODE IDENT NO. SIZE | | | |
| MIT APPROVAL: <i>[Signature]</i> 7/24/63 | | | | 80230 C | | | |
| NASA APPROVAL: <i>[Signature]</i> 7/24/63 | | | | NASA DRAWING NO. | | | |
| SCALE NONE | | | | 1006702 | | | |
| WT | | | | SHEET 1 OF 1 | | | |

| | | | |
|-------------|--|----------------|--|
| NEXT ASSY | | USED ON | |
| APPLICATION | | HEAT TREATMENT | |
| | | FINAL FINISH | |

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING MATERIAL SEE NOTES | |
| HEAT TREATMENT | |
| FINAL FINISH | |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE PROMULGATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSED THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMED ANY RIGHTS OR PERMISSION IN MANUFACTURING, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1129001

| REVISIONS | | | | TDRR 01924 | |
|-----------|------------------------|----------|----------|------------|--|
| SYM | DESCRIPTION | DATE | APPROVAL | | |
| A | REVISED PER TDRR 03704 | 8/26/63 | WLC | | |
| B | REVISED PER TDRR 05221 | 10/26/63 | WLC | | |
| C | REVISED PER TDRR 11139 | 4/6/64 | WLC | | |

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS SPECIFIED IN ND 1015404 CLASS 3.
 - THE WIRE SHALL BE IN ACCORDANCE WITH ND 1002116.
 - COLOR SHALL BE AS INDICATED ON PURCHASE ORDER
2. INSPECTION AND ACCEPTANCE:

A. MECHANICAL REQUIREMENTS:

- SIZES PER TABLE I. OR TABLE II
- MARKING: PER ND1002116

- PACKAGING: PER ND1002116

3. DESIGN REQUIREMENTS:

- THE WIRE SHALL BE COPPER WITH A PRIMARY INSULATION OF POLYURETHANE OR POLYURETHANE, NYLON JACKETED AS SPECIFIED IN ND 1002116

4. ORDERING DATA:

- CLASS B WIRE (PER ND1002116) SHALL BE ORDERED BY DASH NUMBERS FROM TABLE I.
- CLASS A WIRE (PER ND1002116) SHALL BE ORDERED BY DASH NUMBERS FROM TABLE II.

PROCURE ONLY FROM APPROVED SOURCES LISTED ON ND 1002034 FOR THIS DRAWING.

TABLE I
CLASS B WIRE

| NASA DRAWING DASH NUMBER | | | | |
|--------------------------|--------|---------|----------|---------|
| AWG SIZE | TYPE-I | TYPE-II | TYPE-III | TYPE-IV |
| 23 | -1 | -12 | -23 | -34 |
| 30 | -2 | -13 | -24 | -35 |
| 31 | -3 | -14 | -25 | -36 |
| 33 | -4 | -15 | -26 | -37 |
| 34 | -5 | -16 | -27 | -38 |
| 35 | -6 | -17 | -28 | -39 |
| 36 | -7 | -18 | -29 | -40 |
| 37 | -8 | -19 | -30 | -41 |
| 38 | -9 | -20 | -31 | -42 |
| 39 | -10 | -21 | -32 | -43 |
| 41 | -11 | -22 | -33 | -44 |
| 20 | -45 | -46 | -47 | -48 |

TABLE II
CLASS A WIRE

| NASA DRAWING DASH NUMBER | | | | | |
|--------------------------|----------|----------|----------|----------|----------|
| AWG SIZE | DASH NO. | AWG SIZE | DASH NO. | AWG SIZE | DASH NO. |
| 15 | -49 | 25 | -59 | 35 | -69 |
| 16 | -50 | 26 | -60 | 36 | -70 |
| 17 | -51 | 27 | -61 | 37 | -71 |
| 18 | -52 | 28 | -62 | 38 | -72 |
| 19 | -53 | 29 | -63 | 39 | -73 |
| 20 | -54 | 30 | -64 | 40 | -74 |
| 21 | -55 | 31 | -65 | 41 | -75 |
| 22 | -56 | 32 | -66 | 42 | -76 |
| 23 | -57 | 33 | -67 | 43 | -77 |
| 24 | -58 | 34 | -68 | 44 | -78 |

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN <i>[Signature]</i> DATE <i>7/18/63</i> CHECKED <i>[Signature]</i> DATE <i>7/18/63</i> APPROVAL <i>[Signature]</i> DATE <i>7/18/63</i> APPROVAL | | WIRE, MAGNET, ELECTRICAL POLYURETHANE & POLYURETHANE NYLON INSULATED MAGNET WIRE SPECIFICATION CONTROL DRAWING | |
| NASA APPROVAL <i>[Signature]</i> DATE <i>7/18/63</i> MIT APPROVAL <i>[Signature]</i> DATE <i>3/1/64</i> | | CODE IDENT NO. C SIZE C | NASA DRAWING NO. 1006711 |
| APPLICATION | | SCALE NONE | WT |
| | | SHEET | OF |

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NOTES:

1. REQUIREMENTS:

A. ELECTRICAL:

(1) CURRENT PULSE (I_m):

- (a) AT 25°C: 590 MILLIAMPERES \pm 6 MILLIAMPERES.
- (b) AT 0°C: 635 MILLIAMPERES \pm 6 MILLIAMPERES.
- (c) AT 70°C: 510 MILLIAMPERES \pm 5 MILLIAMPERES.

(2) PARTIAL CURRENT PULSE (I_d):

- (a) AT 25°C: 345 MILLIAMPERES \pm 4 MILLIAMPERES.
- (b) AT 0°C: 360 MILLIAMPERES \pm 4 MILLIAMPERES.
- (c) AT 70°C: 290 MILLIAMPERES \pm 3 MILLIAMPERES.

(3) PULSE REPETITION RATE OF I_m AND I_d : NOT CRITICAL.

(4) NUMBER OF PARTIAL CURRENT PULSES: 5 OR MORE.

(5) RISE TIME (T_r):

- (a) AT 25°C, 0°C AND 70°C: 0.4 MICROSECOND \pm .02 MICROSECONDS.

(6) PULSE DURATION (T_d):

- (a) AT 25°C, 0°C AND 70°C: 3.0 MICROSECONDS (FROM 50% ON THE RISE TO 50% ON THE FALL OF THE PEAK AMPLITUDE OF THE CURRENT PULSE).

(7) SELECTED UNDISTURBED ONE VOLTAGE OUTPUT (uV_1):

- (a) AT 25°C: EQUAL TO OR GREATER THAN 60 MILLIVOLTS.
- (b) AT 0°C: EQUAL TO OR GREATER THAN 75 MILLIVOLTS.
- (c) AT 70°C: EQUAL TO OR GREATER THAN 40 MILLIVOLTS.

(8) SELECTED DISTURBED ZERO VOLTAGE OUTPUT (dV_z):

- (a) AT 25°C, 0°C AND 70°C: LESS THAN OR EQUAL TO 10 MILLIVOLTS.

(9) PEAKING TIME (T_p):

- (a) AT 25°C, 0°C AND 70°C: 0.68 PLUS OR MINUS .05 MICROSECOND.

(10) SWITCHING TIME (T_s):

- (a) AT 25°C: LESS THAN OR EQUAL TO 1.45 MICROSECONDS.
- (b) AT 0°C: LESS THAN OR EQUAL TO 1.25 MICROSECONDS.
- (c) AT 70°C: LESS THAN OR EQUAL TO 1.75 MICROSECONDS.

B. QUALITY ASSURANCE PROVISIONS:

(1) SUPPLIER SHALL CONFORM TO THE REQUIREMENTS OF ND 1015404, CLASS 3.

(2) ACCEPTANCE INSPECTION:

- (a) CORES SHALL BE TESTED FOR ELECTRICAL REQUIREMENTS 100 PERCENT AT 25°C. ONE SAMPLE SHALL BE TESTED FOR ELECTRICAL REQUIREMENTS AT 0°C AND 70°C: IN ACCORDANCE WITH MIL-STD-105, 25 PERCENT AQL.

2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

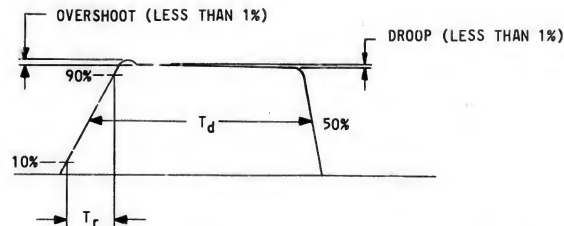


FIG. 1 CURRENT PULSE

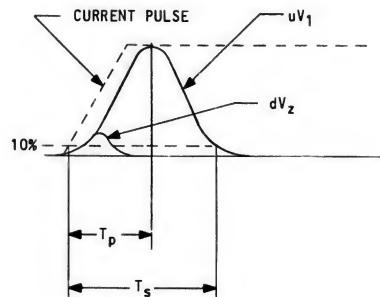


FIG. 2 VOLTAGE RESPONSE OF CORE

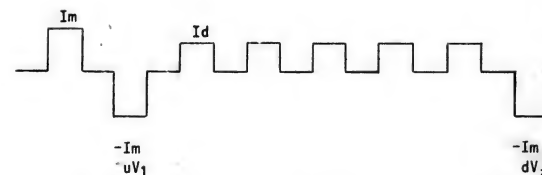
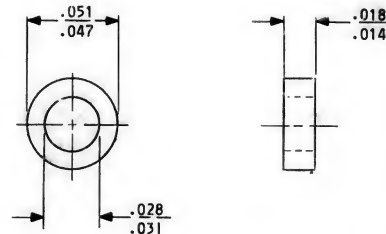


FIG. 3 CURRENT PULSE SEQUENCE

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

| | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|---------------------------------------------------------|--|--------------------------|--|
| QTY REQ | | PART OR IDENTIFYING NO. | | NOMENCLATURE OR DESCRIPTION | | FIND NO. | |
| LIST OF MATERIALS | | | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DRAWN R. WHEELER DATE 2-27-63 CHECKED D. M. SLEEPER 11 JAN 63 APPROVAL [Signature] 2-27-63 APPROVAL [Signature] 10-24-63 | | | | MAGNETIC CORE, FERRITE SPECIFICATION CONTROL DRAWING | | | |
| NASA APPROVAL [Signature] 2-27-63 MIT APPROVAL [Signature] 2-27-63 | | | | CODE IDENT. NO. 80230 SIZE C | | NASA DRAWING NO. 1006786 | |
| HEAT TREATMENT | | | | SCALE NONE | | SHEET 1 OF 1 | |
| FINAL FINISH | | | | WT | | | |
| NEXT ASSY | | USED ON | | APPLICATION | | | |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTES

HEAT TREATMENT
FINAL FINISH

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANOTHER PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT HAS MADE AVAILABLE, FORWARDED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR ENDORSEMENT AS IN ANY MANNER LICENSING THE HOLDER OF THE INFORMATION OR CONFIDENTIALITY OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
- SUPPLIERS SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 3.
- PACKAGING: TAPE SHALL BE PACKAGED IN SUCH FASHION AS TO PREVENT ANY DEFORMITY IN SHAPE OR CONTOUR OF THE ROLLS DURING SHIPMENT.
- MARKING: UNIT PACKAGES, INTERMEDIATE PACKAGES AND EXTERIOR SHIPPING CONTAINERS SHALL BE PERMANENTLY AND LEGIBLY MARKED WITH THE MANUFACTURER'S NAME AND/OR SYMBOL, TYPE NUMBER, WIDTH, LOT OR SERIAL NUMBER AND EXPIRATION DATE, AS WELL AS THE NASA DRAWING NUMBER, DASH NUMBER AND REVISION LETTER PER MIL-STD-129.

2. ACCEPTANCE AND INSPECTION:

- DIMENSIONS: PER TABLE I.
- MARKING: PER PARAGRAPH 1.
- THICKNESS, WITH ADHESIVE, LESS LINER: 0.004 ± 0.0005 FOR SINGLE COATED, 0.006 ± 0.0005 FOR DOUBLE COATED.

3. DESIGN:

- TAPE SHALL BE A GLASS CLOTH-BASED SINGLE COATED, THERMOSETTING, ADHESIVE WITH A SINGLE LINER OR DOUBLE COATED, THERMOSETTING, ADHESIVE WITH A DOUBLE LINER AS NOTED PER TABLE I
- TEMPERATURE RANGE: -55° TO +150°C.
- LINER: SHALL BE SILICONE TREATED CREPE PAPER 0.005 ± 0.002 THICK.
- SHELF LIFE: WHEN STORED AT A TEMPERATURE OF 70°F THE TAPE SHALL HAVE A SHELF LIFE OF NOT LESS THAN 12 MONTHS.
- CHARACTERISTICS: (IN ACCORDANCE WITH TESTS OF AMERICAN SOCIETY FOR TESTING MATERIALS D-1000)

- TENSILE STRENGTH: 100 PSI, MINIMUM.
- ELECTRIC STRENGTH: 5500 VOLTS, MINIMUM.
- INSULATION RESISTANCE: 3000 MEGOHMS, MINIMUM.
- ELONGATION: 5.0 PERCENT, MAXIMUM.

- F. CURING REQUIREMENTS; RECOMMENDED, 3 HOURS AT 250°F OR 2 HOURS AT 275°F OR 1 HOUR AT 300°F.

TABLE I

| ADHESIVE ONE SIDE DASH NO. | DIMENSIONS | | ADHESIVE BOTH SIDES DASH NO. |
|----------------------------|--------------|-----------------|------------------------------|
| | WIDTH | LENGTH PER ROLL | |
| -1 | 1.500 ± .005 | 60 YDS | |
| -2 | 0.600 ± .005 | 60 YDS | |
| -3 | 0.290 ± .010 | 60 YDS | |
| -4 | 0.800 ± .005 | 60 YDS | -15 |
| -5 | 1.400 ± .005 | 60 YDS | -16 |
| -6 | 1.650 ± .010 | 60 YDS | |
| -7 | 0.250 ± .005 | 60 YDS | |
| -8 | 0.400 ± .010 | 60 YDS | |
| -9 | 0.340 ± .010 | 60 YDS | |
| -10 | 1.000 ± .010 | 60 YDS | |
| -11 | 0.700 ± .005 | 60 YDS | -17 |
| -12 | .900 ± .010 | 60 YDS | |
| -14 | .500 ± .010 | 60 YDS | -13 |
| -18 | .150 ± .010 | 60 YDS | |
| -19 | .200 ± .005 | 60 YDS | |

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND102034 FOR THIS DRAWING.

1006849

REVISIONS 1006849 26 Jan 63

| SYN | DESCRIPTION | DATE | APPROVAL |
|-----|----------------------------------------------------|---------|----------|
| A | REVISED PER TDRR 02388 | | 4/17/63 |
| D | UPGRADED TO CLASS A WITHOUT CHANGES PER TDRR 02969 | 9/5/63 | WR |
| C | REVISED PER TDRR 03514 | 30/8/63 | WR |
| D | REVISED PER TDRR 10116 | 6/16/64 | WR |
| E | REVISED PER TDRR 10173 | 6/16/64 | WR |
| F | REVISED PER TDRR 17364 | 18/6/65 | WR |

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|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------|-----------------------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN: [Signature] DATE: 13 June 63 CHECKED: [Signature] DATE: 14 June 63 APPROVAL: [Signature] APPROVAL: [Signature] | | INSULATION TAPE, ELECTRICAL THERMOSETTING ADHESIVE SPECIFICATION CONTROL DRAWING | |
| NASA APPROVAL: [Signature] MIT APPROVAL: [Signature] | | CODE IDENT NO. SIZE — C | NASA DRAWING NO. 1006849 |
| SCALE NONE | | WT | SHEET 1 OF 1 |



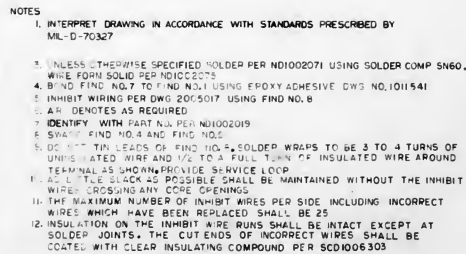
| REVISIONS | | | | | | |
|-----------|------|----|-----|------|----------|--|
| REV | DATE | BY | CHK | DATE | APPROVED | |
| A | | | | | | |
| B | | | | | | |
| C | | | | | | |
| D | | | | | | |

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|-----|------------|----------|--|--|--|--|
| 1 | 1006750-27 | SCHMATIC | | | | |
| 2 | 1006750-43 | RESISTOR | | | | |
| 3 | 1006750-56 | RESISTOR | | | | |
| 4 | 1006750-62 | RESISTOR | | | | |
| 5 | 1006750-62 | RESISTOR | | | | |
| 6 | 1006750-62 | RESISTOR | | | | |
| 7 | 1006750-62 | RESISTOR | | | | |
| 8 | 1006750-62 | RESISTOR | | | | |
| 9 | 1006750-62 | RESISTOR | | | | |
| 10 | 1006750-62 | RESISTOR | | | | |
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| 12 | 1006750-62 | RESISTOR | | | | |
| 13 | 1006750-62 | RESISTOR | | | | |
| 14 | 1006750-62 | RESISTOR | | | | |
| 15 | 1006750-62 | RESISTOR | | | | |
| 16 | 1006750-62 | RESISTOR | | | | |
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| 44 | 1006750-62 | RESISTOR | | | | |
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| 47 | 1006750-62 | RESISTOR | | | | |
| 48 | 1006750-62 | RESISTOR | | | | |
| 49 | 1006750-62 | RESISTOR | | | | |
| 50 | 1006750-62 | RESISTOR | | | | |
| 51 | 1006750-62 | RESISTOR | | | | |
| 52 | 1006750-62 | RESISTOR | | | | |
| 53 | 1006750-62 | RESISTOR | | | | |
| 54 | 1006750-62 | RESISTOR | | | | |
| 55 | 1006750-62 | RESISTOR | | | | |
| 56 | 1006750-62 | RESISTOR | | | | |
| 57 | 1006750-62 | RESISTOR | | | | |
| 58 | 1006750-62 | RESISTOR | | | | |
| 59 | 1006750-62 | RESISTOR | | | | |
| 60 | 1006750-62 | RESISTOR | | | | |
| 61 | 1006750-62 | RESISTOR | | | | |
| 62 | 1006750-62 | RESISTOR | | | | |
| 63 | 1006750-62 | RESISTOR | | | | |
| 64 | 1006750-62 | RESISTOR | | | | |
| 65 | 1006750-62 | RESISTOR | | | | |
| 66 | 1006750-62 | RESISTOR | | | | |
| 67 | 1006750-62 | RESISTOR | | | | |
| 68 | 1006750-62 | RESISTOR | | | | |
| 69 | 1006750-62 | RESISTOR | | | | |
| 70 | 1006750-62 | RESISTOR | | | | |
| 71 | 1006750-62 | RESISTOR | | | | |
| 72 | 1006750-62 | RESISTOR | | | | |
| 73 | 1006750-62 | RESISTOR | | | | |
| 74 | 1006750-62 | RESISTOR | | | | |
| 75 | 1006750-62 | RESISTOR | | | | |
| 76 | 1006750-62 | RESISTOR | | | | |
| 77 | 1006750-62 | RESISTOR | | | | |
| 78 | 1006750-62 | RESISTOR | | | | |
| 79 | 1006750-62 | RESISTOR | | | | |
| 80 | 1006750-62 | RESISTOR | | | | |
| 81 | 1006750-62 | RESISTOR | | | | |
| 82 | 1006750-62 | RESISTOR | | | | |
| 83 | 1006750-62 | RESISTOR | | | | |
| 84 | 1006750-62 | RESISTOR | | | | |
| 85 | 1006750-62 | RESISTOR | | | | |
| 86 | 1006750-62 | RESISTOR | | | | |
| 87 | 1006750-62 | RESISTOR | | | | |
| 88 | 1006750-62 | RESISTOR | | | | |
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| 90 | 1006750-62 | RESISTOR | | | | |
| 91 | 1006750-62 | RESISTOR | | | | |
| 92 | 1006750-62 | RESISTOR | | | | |
| 93 | 1006750-62 | RESISTOR | | | | |
| 94 | 1006750-62 | RESISTOR | | | | |
| 95 | 1006750-62 | RESISTOR | | | | |
| 96 | 1006750-62 | RESISTOR | | | | |
| 97 | 1006750-62 | RESISTOR | | | | |
| 98 | 1006750-62 | RESISTOR | | | | |
| 99 | 1006750-62 | RESISTOR | | | | |
| 100 | 1006750-62 | RESISTOR | | | | |

| | | | | | | |
|-----|------------|----------|--|--|--|--|
| 1 | 1006750-27 | SCHMATIC | | | | |
| 2 | 1006750-43 | RESISTOR | | | | |
| 3 | 1006750-56 | RESISTOR | | | | |
| 4 | 1006750-62 | RESISTOR | | | | |
| 5 | 1006750-62 | RESISTOR | | | | |
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| 3 | 1006750-56 | RESISTOR | | | | |
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| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ARE IN 10'S OF 10'S DO NOT SCALE THIS DRAWING | | M I T INSTRUMENTATION LAB 1000 CENTRE STREET CAMBRIDGE, MASS. 02139 DRAWN BY <i>W. J. B.</i> 1/7/87 CHECKED BY <i>W. J. B.</i> 1/7/87 APPROVED BY <i>C. A. R.</i> 1/7/87 DATE | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS OSCILLATOR SUB ASSEMBLY MODULE NO. B7 | | DRAWING NO. 2003036 | |
| 2003036 | | REVISION 1 <i>W. J. B.</i> 1/7/87 2 <i>W. J. B.</i> 1/7/87 DATE | | CHECK SHEET NO. 80230 | | SIZE E | | 2003036 | |
| NEXT ASY USED ON | | APPLICATION | | SCALE 1:1 SHEET 1 OF 1 | | | | | |



1. PROCESS REQUIREMENTS FOR CONTROL AND INSPECTION OF ROPE MEMORY ASSEMBLIES NO 1002285

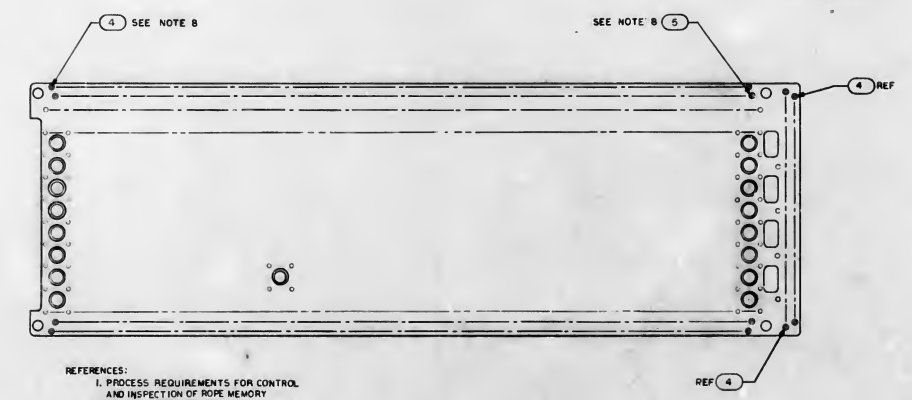
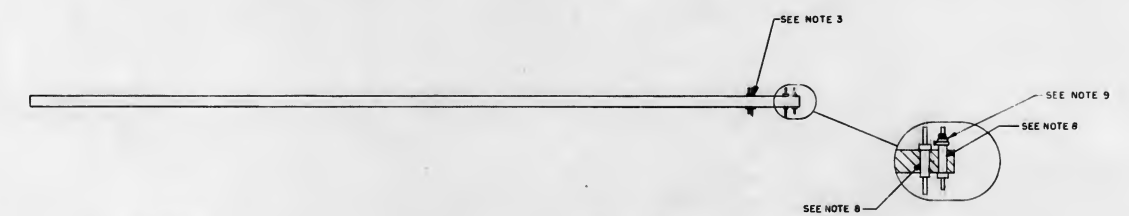
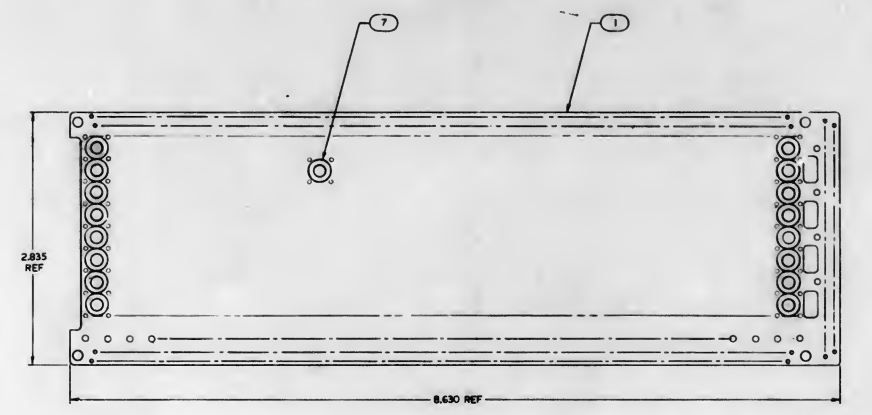
2. FIXED MEMORY FIXTURE DWG AP 22500

[illegible]

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| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS AND A. B. C. DO NOT SCALE THIS DRAWING MATERIAL |
| 2003060 | | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

2003050

| REVISIONS | | DATE | BY | APPROVED |
|-----------|------------------------|---------|-------------------|-------------|
| A | REVISED PER TORH 20950 | 10/1/78 | W. J. [Signature] | [Signature] |
| B | REVISED PER TORH 23599 | 10/1/78 | W. J. [Signature] | [Signature] |
| C | REVISED PER TORH 24472 | 10/1/78 | W. J. [Signature] | [Signature] |
| D | REVISED PER TORH 30064 | 10/1/78 | W. J. [Signature] | [Signature] |



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - 2.
 3. UNLESS OTHERWISE SPECIFIED SOLDER PER NDI002071 USING SOLDER COMP 5N60, 4DRY WIRE SOLDER PER NDI002075
 4. BOND FIND NO.7 TO FIND NO.1 USING EPOXY ADHESIVE DWG NO.101541
 5. INHIBIT WIRING PER DWG 2005017 USING FIND NO.8
 6. AP. DENTICES AS REQUIRED
 7. IDENTIFY WITH PART NO. PER NDI002019
 8. SWAGE FIND NO.8 AND FIND NO.5
 9. DO NOT TIN LEADS OF FIND NO.8. SOLDER WRAPS TO BE 3 TO 4 TURNS OF UNINSULATED WIRE AND 1/2 TO A FULL TURN OF INSULATED WIRE AROUND TERMINAL AS SHOWN. PROVIDE SERVICE LOOP
 10. AS LITTLE SLACK AS POSSIBLE SHALL BE MAINTAINED WITHOUT THE INHIBIT WIRES CROSSING ANY CORE OPENINGS
 11. THE MAXIMUM NUMBER OF INHIBIT WIRES PER SIDE INCLUDING INCORRECT WIRES WHICH HAVE BEEN REPLACED SHALL BE 25
 12. INSULATION ON THE INHIBIT WIRE RUNS SHALL BE INTACT EXCEPT AT SOLDER JOINTS. THE CUT ENDS OF INCORRECT WIRES SHALL BE COATED WITH CLEAR INSULATING COMPOUND PER SCD 1006503

- REFERENCES:
1. PROCESS REQUIREMENTS FOR CONTROL AND INSPECTION OF ROPE MEMORY ASSEMBLIES NO. 1002285
 2. FIXED MEMORY FIXTURE DWG AP 22500

| LIST OF MATERIALS | | QTY | DESCRIPTION |
|-------------------|-------------|-----|-----------------|
| 256 | 1006380-001 | 1 | WIRE ELECTRICAL |
| 256 | 1006380-001 | 1 | CORE |
| 217 | 2004069-002 | 1 | TERMINAL TURRET |
| 216 | 2004069-001 | 1 | TERMINAL TURRET |
| 1 | 2004067 | 1 | CORE HOLDER |
| TOTAL | | 5 | |

| LIST OF MATERIALS | | QTY | DESCRIPTION |
|-------------------|-------------|-----|-----------------|
| 256 | 1006380-001 | 1 | WIRE ELECTRICAL |
| 256 | 1006380-001 | 1 | CORE |
| 217 | 2004069-002 | 1 | TERMINAL TURRET |
| 216 | 2004069-001 | 1 | TERMINAL TURRET |
| 1 | 2004067 | 1 | CORE HOLDER |
| TOTAL | | 5 | |

| INSTRUMENTATION LAB | | DATE | BY | APPROVED |
|---------------------|---------|---------|-------------------|-------------|
| 2003061 | USED ON | 10/1/78 | W. J. [Signature] | [Signature] |
| 2003061 | USED ON | 10/1/78 | W. J. [Signature] | [Signature] |

| MANNED SPACECRAFT CENTER | | DATE | BY | APPROVED |
|--------------------------|---------|---------|-------------------|-------------|
| 2003061 | USED ON | 10/1/78 | W. J. [Signature] | [Signature] |
| 2003061 | USED ON | 10/1/78 | W. J. [Signature] | [Signature] |

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2.000 PHOTO REF DIM.

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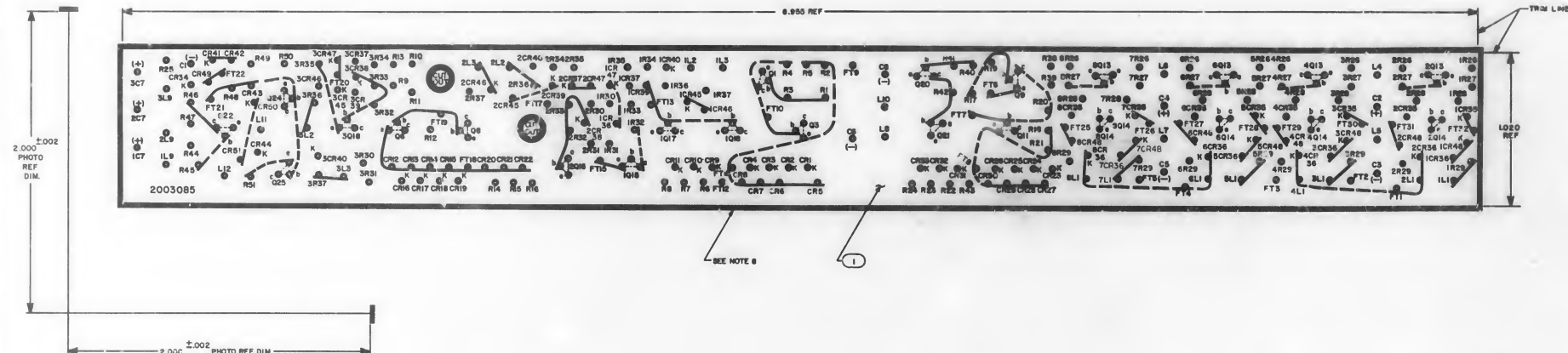
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| REV | DATE | DESCRIPTION | BY | CHK | DATE | APPROVED |
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| 1 | 25/25 | | | | | |



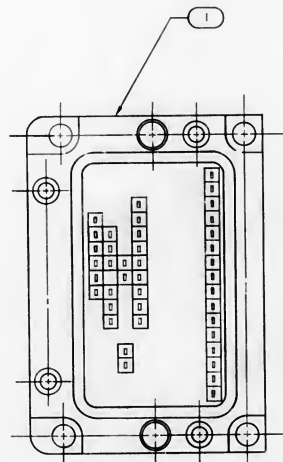
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70827
 2. MATERIAL: FIND NO. 1, FILM .008/.008 1/1000 SENSITIZED DIMENSIONALLY STABLE PER L-F-340 TYPE II, CLASS 2, STYLE 1A
 3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
 4. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
 5. CUT TO WITHIN .010 OF TRIM LINE
 6. DRYER LINE DENOTES SLEEVING
 7. Ø .040/.050 DIA HOLE
 8. APPLY FIND NO. 2 TO FAR SIDE OF FIND NO. 1
 9. ALL CUTOUT TO .020/.22 DIA

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| AR 2003085 | | ACKERMAN | | E | |
| 1 2003085-001 | | INSULATOR B | | 1 | |
| REV | DATE | DESCRIPTION | BY | CHK | DATE |
| 1 | 25/25 | | | | |
| LIST OF MATERIALS | | | | | |
| MIT | | MANUFACTURING LAB | | MANUFACTURING CENTER | |
| UNLESS OTHERWISE SPECIFIED | | DIMENSIONS ARE IN INCHES | | DIMENSIONS ARE IN INCHES | |
| CAPACITOR VALUES ARE IN µF | | RESISTOR VALUES ARE IN OHMS | | RESISTOR VALUES ARE IN OHMS | |
| PREFERENCES ON | | PREFERENCES ON | | PREFERENCES ON | |
| DRAWING | | DRAWING | | DRAWING | |
| 2003140 | | 2003140 | | 2003140 | |
| NEXT ASSY | | USED ON | | APPLICATION | |
| SEE NOTE 2 | | SEE NOTE 2 | | SEE NOTE 2 | |
| APPROVED | | APPROVED | | APPROVED | |
| DATE | | DATE | | DATE | |
| SCALE 4/1 | | SCALE 4/1 | | SCALE 4/1 | |
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2003085

NOTES: 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES. 2. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 3. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 4. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 5. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 6. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 7. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. 8. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED.

| SYM | | ZONE | | DESCRIPTION | | REVISED PER | | TDRR | | 33441 | | DATE | | APPROVED | |
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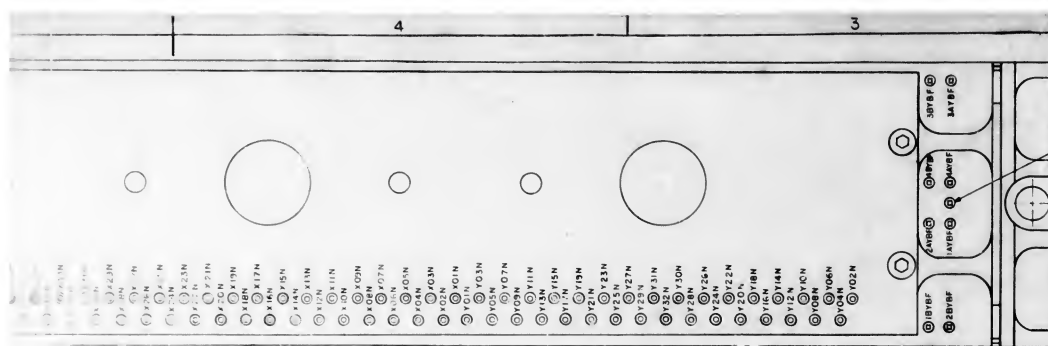


SEE NOTE 2

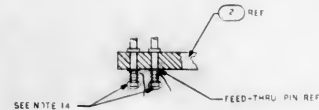
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. ENCAPSULATE PER ND1002236
 3. IDENTIFY WITH PART NO. PER ND1002019

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| 2003099 | | NEXT ASSY | | USED ON | | APPLICATION | |
| <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μF RESISTOR VALUES ARE IN OHMS FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING</p> | | | | | | | |
| <p>MIT INSTRUMENTATION LAB CAMBRIDGE, MASS</p> | | | | <p>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</p> | | | |
| <p>DRAWN <i>M. Rice</i> 0-26-66 CHECKED <i>Benarriga</i> 0-26-66 APPROVED <i>Allen Hughes</i> 3-10-66</p> | | | | <p>FRAME ASSEMBLY CONNECTOR</p> | | | |
| <p>APPROVED <i>Allen Hughes</i> 3-10-66 APPROVED <i>Allen Hughes</i> 3-10-66 APPROVED <i>Allen Hughes</i> 3-10-66</p> | | | | <p>CODE IDENT NO 80230 SIZE D DRAWING NO 2003095</p> | | | |
| <p>DATE SCALE 2/1</p> | | | | <p>SHEET 1 OF 1</p> | | | |

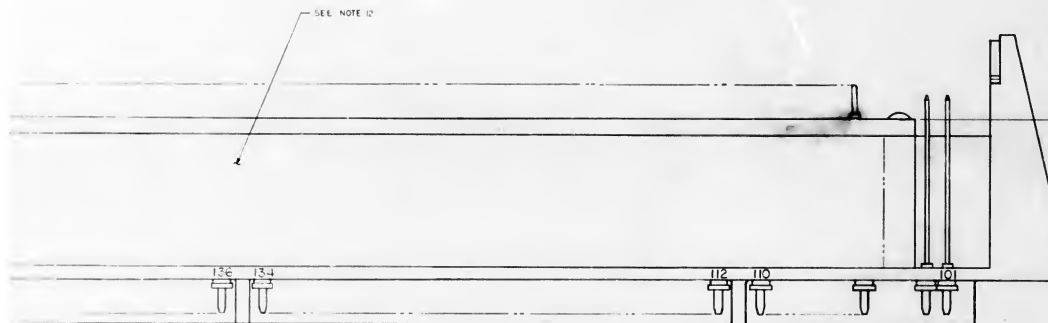
2003095A



CHASSIS GRD REF



DETAIL C
SCALE: NONE



SEE NOTE 12

SEE DETAIL B

SEE DETAIL C

SEE DETAIL D

SEE DETAIL E

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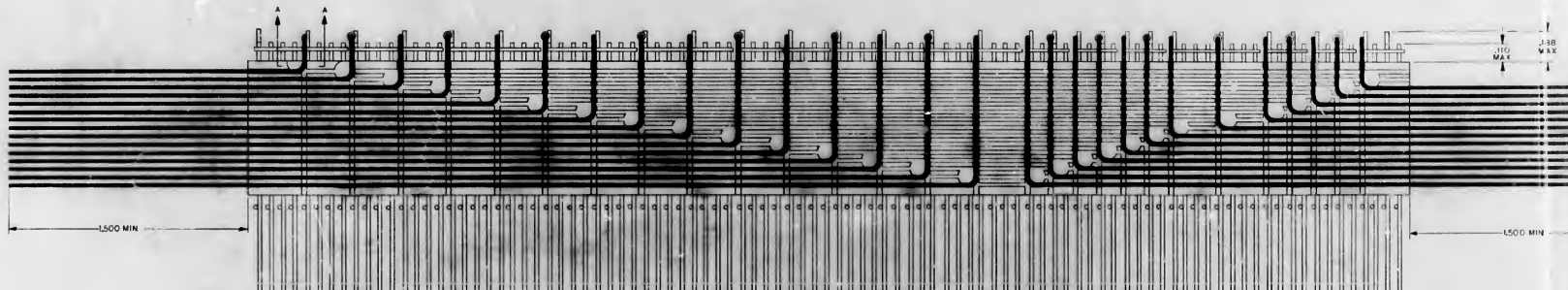
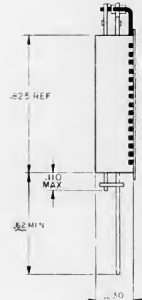
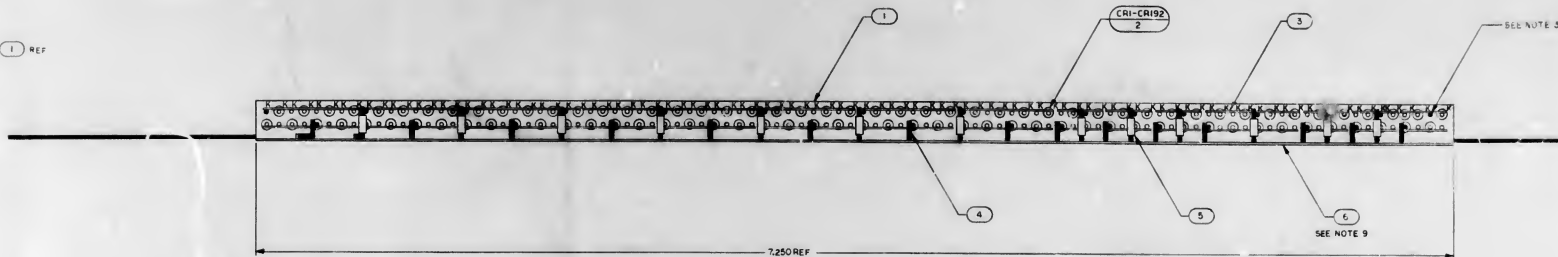
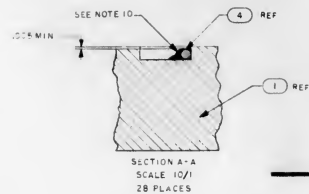
SEE DETAIL JN

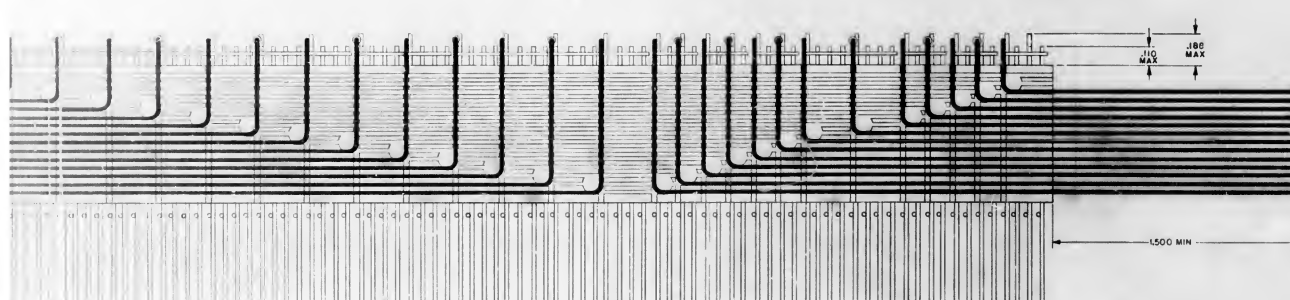
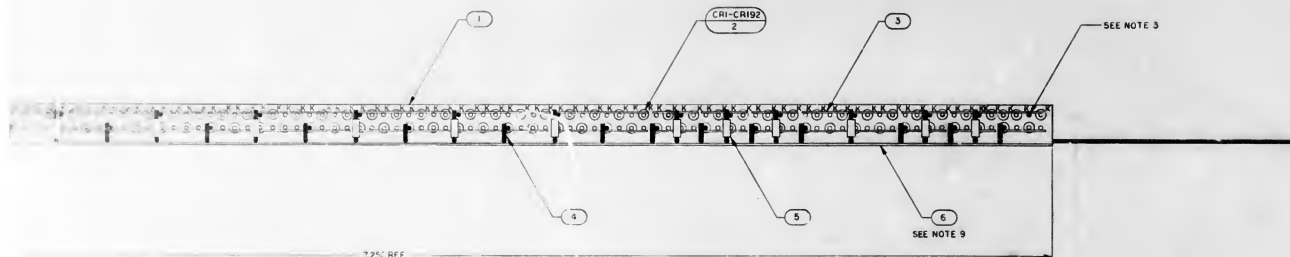
SEE DETAIL JO

SEE DETAIL JP

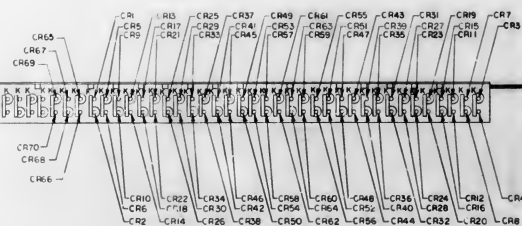
SEE DETAIL JQ

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THIS VIEW SHOWN WITHOUT FIND NO. 6



| | | | | | |
|--------------------------------------|-------------|--------------------------|-------------|---------------|--|
| 200506 | | SCHEMATIC | | 1 | |
| | | | | | |
| | | | | | |
| I | 20C4175 | INSULATOR | | E | |
| AR | 1006776-22 | INSULATING SLEEVE | | E | |
| AR | 1007979-5 | WIRE ELECTRICAL | | E | |
| AR | 1006775-1 | WIRE ELECTRICAL | | E | |
| 192 | 2041103-100 | DIOIDE | | E | |
| | 1204272 | DIOIDE BLOCK | | E | |
| STA | RAT OF | | | NOMINALLY 100 | |
| | | | | PERCENT | |
| C-01 | | LIST OF MATERIALS | | F | |
| M1 | | MANNED SPACECRAFT CENTER | | | |
| INSTRUMENTATION LAB | | ROCKFORD, TEXAS | | | |
| DESIGNED BY <i>W. J. [Signature]</i> | | DIOIDE BLOCK ASSEMBLY | | | |
| APPROVED BY <i>[Signature]</i> | | ERASABLE MEMORY | | | |
| M1 | | CHKD NEW NO. 845 | BRN NEW NO. | | |
| APPROVED BY <i>[Signature]</i> | | 820330 J | 2003112 | | |
| | | 820330 J | 1987 | | |

[illegible]

| ASSEMBLY INFORMATION CHART | | | | | | | | | |
|----------------------------|------------|---------|---------|-------------|--------|----------|---------|---------|-------------|
| REMARKS | FROM | | | DESCRIPTION | | | TO | | |
| | COND IDENT | STA NO. | DES | COLOR | AWG | FIND NO. | STA NO. | DES | REMARKS |
| SEE NOTE 11 | A179 | 21 | J12-180 | YELLOW | 26 | 3 | 20 | T83-12 | SEE NOTE 10 |
| | A180 | | | -193 | YELLOW | 4 | | - 9 | TWIST |
| | A181 | | | -194 | RED | 4 | | - 8 | SEE NOTE 10 |
| | A182 | | | -205 | YELLOW | 3 | | - 6 | |
| | A183 | | | -181 | YELLOW | 3 | | - 5 | SEE NOTE 10 |
| | A184 | | | -186 | YELLOW | 3 | | - 4 | |
| SEE NOTES 11 & 12 | A185 | | J12-184 | BLACK | 5 | 20 | T83-2 | | |
| | A186 | | J12-177 | VEL | 5 | 27 | J12-19 | | |
| | A187 | 21 | J12-18 | VEL | 26 | 3 | 21 | J12-184 | |

◆ DENOTES MUST BE FIRST LEVEL

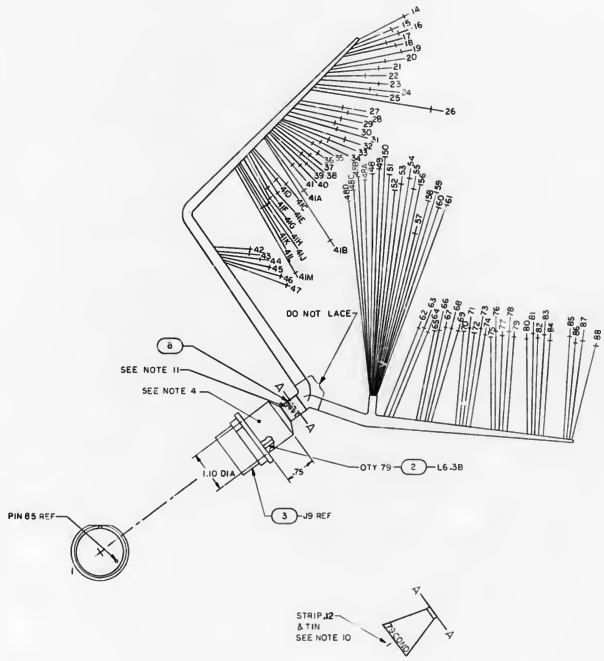
| | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|
| QTY REQD | | PART OR IDENTIFYING NO | | NOMENCLATURE OR DESCRIPTION | | FAC NO | |
| | | | | LIST OF MATERIALS | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES IN DEGREES DO NOT SCALE THIS DRAWING MATERIAL | | | | MFG'S INFORMATION DRAWING LAB Company name DATE <u>12/15/82</u> DATE <u>12/15/82</u> DRAWN BY <u>W. J. B.</u> APPROVAL <u>W. J. B.</u> APPROVAL <u>W. J. B.</u> | | | |
| 2003885 | | | | MANNED SPACECRAFT CENTER HOUSTON TEXAS CONNECTOR PLATE WIRED ASSY AGC DSKY | | | |
| NEXT SHEET USED ON | | | | Balsa APPROVAL <u>W. J. B.</u> COOK CODE <u>001</u> SIZE 2003885 | | Balsa DRAWING NO 2003882 | |
| APPLICATION | | | | C.A. APPROVAL <u>W. J. B.</u> DATE <u>12/15/82</u> | | NET SHEET OF 2 | |

| ASSEMBLY INFORMATION CHART | | | | | | | | | |
|----------------------------|------------|---------|-------------|--------|-----|----------|---------|-------------|---------|
| REMARKS | FROM | | | | TO | | | | REMARKS |
| | CONO IDENT | STA NO. | DESTINATION | COLOR | AWG | FIND NO. | STA NO. | DESTINATION | |
| | B1 | 1 | J9-37 | YELLOW | 26 | 1 | 37 | J5-6 | |
| | B2 | 1 | J9-53 | | | | 24 | J2-12 | |
| | B3 | 1 | J9-60 | | | | 28 | J4-10 | |
| | B4 | 1 | J9-31 | | | | 18 | J2-11 | |
| | B5 | 1 | J9-19 | | | | 34 | J5-5 | |
| | B6 | 1 | J9-28 | | | | 53 | J1-17 | |
| | B7 | 1 | J9-61 | | | | 38 | J5-3 | |
| | B8 | 1 | J9-59 | | | | 41 | J5-12 | |
| | B9 | 1 | J9-81 | | | | 30 | J4-8 | |
| | B10 | 1 | J9-82 | | | | 27 | J4-2 | |
| | B11 | 1 | J9-54 | | | | 31 | J4-12 | |
| | B12 | 1 | J9-27 | | | | 71 | J4-86 | |
| | B13 | 1 | J9-83 | | | | 29 | J4-11 | |
| | B14 | 1 | J9-47 | | | | 79 | J3-85 | |
| | B15 | 1 | J9-14 | | | | 417 | J6-2 | |
| | B16 | 1 | J9-4 | | | | 44 | J7-7 | |
| | B17 | 1 | J9-15 | | | | 41H | J6-10 | |
| | B18 | 1 | J9-12 | | | | 64 | J6-50 | |
| | B19 | 1 | J9-32 | | | | 41L | J6-8 | |
| | B20 | 1 | J9-26 | | | | 73 | J4-85 | |
| | B21 | 1 | J9-55 | | | | 410 | J6-1 | |
| | B22 | 1 | J9-46 | | | | 85 | J2-85 | |
| | B23 | 1 | J9-84 | | | | 41K | J6-11 | |
| | B24 | 1 | J9-72 | | | | 86 | J1-65 | |
| | B25 | 1 | J9-3 | | | | 45 | J7-5 | |
| | B26 | 1 | J9-33 | | | | 79 | J3-82 | |
| | B27 | 1 | J9-16 | | | | 23 | J3-15 | |
| | B28 | 1 | J9-11 | | | | 85 | J5-2 | |
| | B29 | 1 | J9-33 | | | | 25 | J3-20 | |
| | B30 | 1 | J9-25 | | | | 67 | J5-86 | |
| | B31 | 1 | J9-56 | | | | 19 | J3-21 | |
| | B32 | 1 | J9-45 | | | | 62 | J6-86 | |
| | B33 | 1 | J9-79 | | | | 48 | TB3-16 | |
| | B34 | 1 | J9-71 | | | | 81 | J2-86 | |
| | B35 | 1 | J9-1 | | | | 46 | J7-3 | |
| | B36 | 1 | J9-2 | | | | 87 | J1-90 | |
| | B37 | 1 | J9-6 | | | | 40 | J2-18 | |
| | B38 | 1 | J9-10 | | | | 72 | J4-90 | |
| | B39 | 1 | J9-17 | | | | 41A | J5-20 | |
| | B40 | 1 | J9-24 | | | | 70 | J4-91 | |
| | B41 | 1 | J9-34 | | | | 32 | J5-21 | |
| | B42 | 1 | J9-44 | | | | 76 | J2-86 | |
| | B43 | 1 | J9-49 | | | | 51 | TB3-10 | |
| | B44 | 1 | J9-70 | | | | 85 | J1-86 | |
| | B45 | 1 | J9-51 | | | | 43 | TB3-14 | |
| | B46 | 1 | J9-9 | | | | 47 | J7-2 | |
| | B47 | 1 | J9-7 | | | | 43 | J7-11 | |
| | B48 | 1 | J9-9 | | | | 86 | J1-89 | |
| | B49 | 1 | J9-18 | | | | 63 | J6-85 | |
| | B50 | 1 | J9-23 | | | | 74 | J4-89 | |
| | B51 | 1 | J9-36 | | | | 39 | J5-11 | |
| | B52 | 1 | J9-43 | | | | 75 | J3-91 | |
| | B53 | 1 | J9-58 | | | | 35 | J5-1 | |
| | B54 | 1 | J2-85 | | | | 68 | J5-85 | |
| | B55 | 1 | J9-78 | | | | 52 | TB3-13 | |
| | B56 | 1 | J9-21 | | | | 48C | TB3-3 | |
| | B57 | 1 | J9-36 | | | | 41J | J6-4 | |
| | B58 | 1 | J9-22 | | | | 82 | J2-90 | |
| | B59 | 1 | J9-48 | | | | 54 | TB3-11 | |
| | B60 | 1 | J9-42 | | | | 66 | J5-90 | |
| | B61 | 1 | J9-77 | | | | 59 | TB3-10 | |
| | B62 | 1 | J9-68 | | | | 80 | J2-91 | |
| | B63 | 1 | J9-30 | | | | 60 | J2-12 | |
| | B64 | 1 | J9-57 | | | | 15 | J2-1 | |
| | B65 | 1 | J9-60 | | | | 41J | J6-3 | |
| | B66 | 1 | J9-40 | YELLOW | | | 55 | TB3-9 | |
| | B67 | 1 | J9-38 | RED | | | 56 | TB3-6 | |
| | B68 | 1 | J9-41 | YELLOW | | | 84 | J2-89 | |
| | B69 | 1 | J9-76 | | | | 50 | TB3-6 | |
| | B70 | 1 | J9-67 | | | | 19 | J5-89 | |
| | B71 | 1 | J9-85 | | | | 41C | J6-5 | |
| | B72 | 1 | J9-64 | | | | 14 | J1-3 | |
| | B73 | 1 | J9-63 | | | | 61 | TB3-5 | |
| | B74 | 1 | J9-65 | | | | 38 | TB3-4 | |
| | B75 | 1 | J9-62 | | | | 16 | J2-10 | |
| | B76 | 1 | J9-39 | YELLOW | | | 77 | TB3-9 | |
| | B77 | 1 | J9-39 | BLK | | | 37 | TB3-9 | |
| | B78 | 41M | J6-64 | YELLOW | | | 36 | J5-10 | |
| | B79 | 41C | J6-9 | | | | 20 | J6-9 | |
| | B80 | 17 | J2-3 | | | | 22 | J3-3 | |
| | B81 | 21 | J3-10 | | | | 33 | J5-9 | |
| | B82 | 26 | J3-64 | | | | 41B | J5-64 | |
| | B83 | 26 | J9-74 | | | | 48A | TB3-1 | |
| | B84 | 26 | J9-75 | | | | 48B | TB3-7 | |
| | B85 | 48D | TB3-3 | YELLOW | 26 | 1 | 42 | J7-9 | |

SEE NOTE 3

SEE NOTE 3

SEE NOTE 3



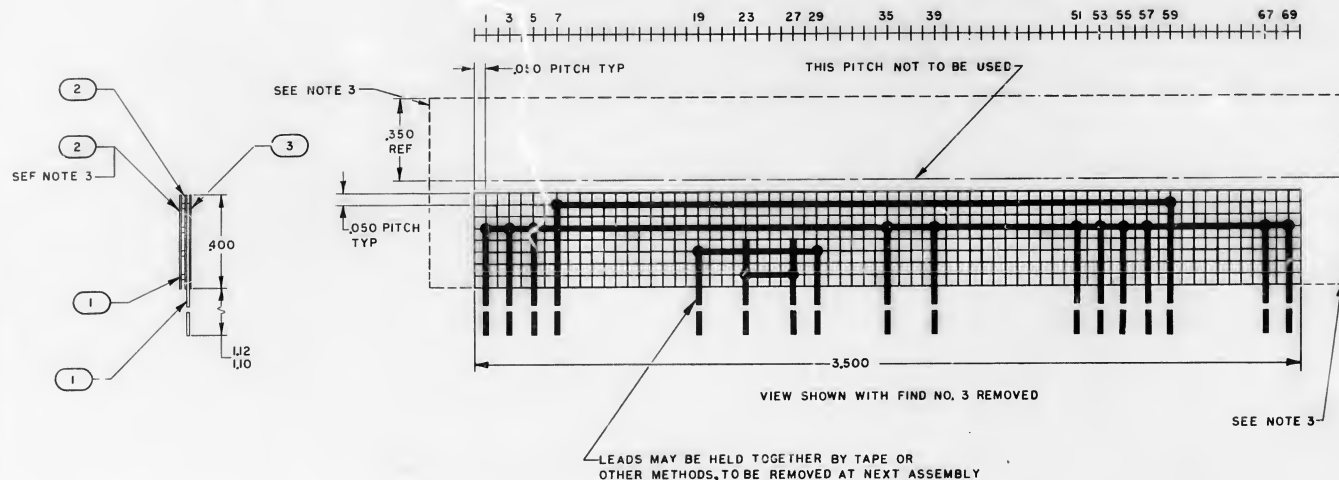
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-0-70327
 2. FABRICATE PER NDI002032
 3. UNLESS OTHERWISE SPECIFIED STRIP ALL LEADS .20 AND TIN
 4. POT INDICATED AREA PER NDI002236
 5. AR DENOTES AS REQUIRED
 6. IDENTIFY WITH PART NO. PER NDI002019
 7. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN: PREFIX DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
 8. L.C.F. ENTIRE HARNESS CONFIGURATION UNLESS OTHERWISE SPECIFIED USING FIND NO.4
 9. DO NOT APPLY HEAT GREATER THAN 250°F TO FIND NO.2
 10. SOLDER PER NDI002071 USING NDI002075
 11. MARK .060/000 HIGH BLACK CHARACTERS PER NDI002019 AND NDI002122, TYPE II, CLASS 2 USING INK J006571-11. CENTRALIZE AS SHOWN

* DENOTES LENGTH IN FEET

| | | | | | |
|----------------------------|--|---------------------|--|--------------------------|--|
| UNLESS OTHERWISE SPECIFIED | | INTERPRETATION LAB | | MANNED SPACECRAFT CENTER | |
| DIMENSIONS ARE IN INCHES | | DRAWING NO. 2003886 | | HOURS ON TEXAS | |
| TOLERANCES ON | | ANGLES | | SCALE 1/1 | |
| FRACTIONS | | DECIMALS | | BY | |
| DO NOT SCALE THIS DRAWING | | CHECKED BY | | DATE | |
| MATERIAL | | APPROVED BY | | DATE | |
| HEAT TREATMENT | | NASA APPROVAL | | CODE 82-11 NO. 818 | |
| NEXT ASBY | | USED ON | | 80230 J | |
| APPLICATION | | FINAL FINISH | | 7003886 | |

NOTES: 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
3. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
4. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
5. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

| REVISIONS | | | |
|-----------|-----------------------------------------|----------|----------|
| SYM | DESCRIPTION | DATE | APPROVED |
| A | REVISED PER TDR 27084 DR # 27084 CHK | APPD 02/ | 3/1/61 |



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY M.L.D-70327
 2. FABRICATE PER ND1002030
 3. INDICATED EXCESS MATERIAL & LINER OF FIND NO.2 ARE TO BE UTILIZED FOR HANDLING PURPOSES ONLY & WILL BE REMOVED AT NEXT ASSEMBLY
 4. AR DENOTES AS REQUIRED
 5. IDENTIFY WITH PART NO. PER ND1002019

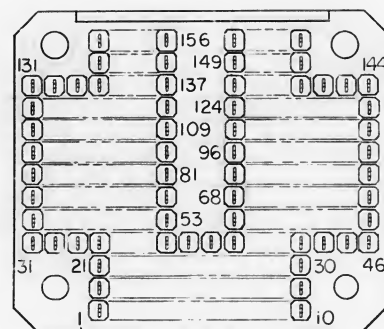
| | | |
|--------------|------------------------------|-----------------------------|
| AR 1006826-4 | INSULATION TAPE, ELECTRICAL | 3 |
| AR 1006806-1 | INSULATION TAPE, ELECTRICAL | 2 |
| AR 1006757-1 | WIRE, ELECTRICAL .010 X .020 | 1 |
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION |
| OII | LIST OF MATERIALS | |

| | | | | | | | |
|-------------------|--|------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--|
| 2003910 | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .005 ± | | INSTRUMENTATION LAB CHANDLER, MISS DRAWN <i>B. J. J. J.</i> DATE <i>2/1/61</i> CHECKED <i>B. J. J. J.</i> DATE <i>2/1/61</i> APPROVAL <i>B. J. J. J.</i> DATE <i>2/1/61</i> MATERIAL | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS MATRIX ASSEMBLY RELAY CIRCUIT ASSEMBLY AGC DSKY | |
| TEXT ASSY USED ON | | DO NOT SCALE THIS DRAWING | | NASA APPROVAL <i>B. J. J. J.</i> DATE <i>2/1/61</i> MTT APPROVAL <i>B. J. J. J.</i> DATE <i>2/1/61</i> MTT APPROVAL <i>B. J. J. J.</i> DATE <i>2/1/61</i> | | CODE IDENT NO. SIZE 80230 D SCALE 4/1 WT | |
| APPLICATION | | | | | | NASA DRAWING NO. 2003911 SHEET 1 OF 1 | |

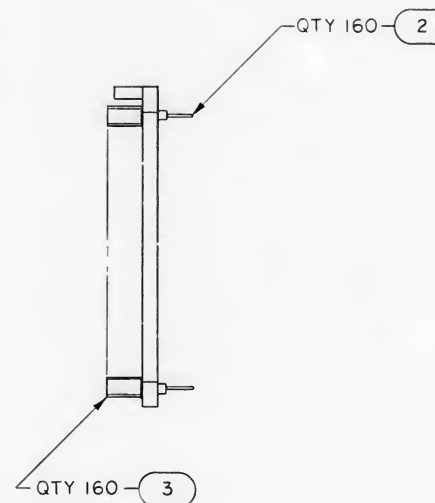
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REVISIONS 20855

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|-------------|----|-----|------|----------|
| | | | | | | |



SEE NOTE 2



NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- MARK NEAR & FAR SIDE APPROXIMATELY WHERE SHOWN .07/.09 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122, TYPE II, CLASS 2 USING INK 1006271-II
- IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
- ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136

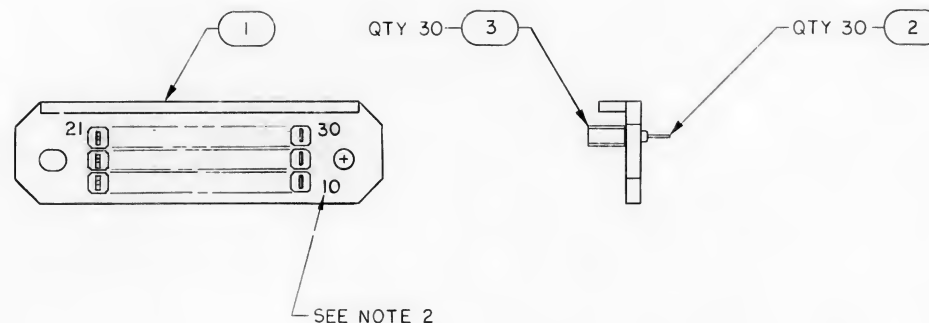
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| | |
| | |
| 2003912 | |
| NEXT ASSY | USED ON |
| APPLICATION | |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ f
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON FRACTIONS DECIMALS ANGLES
 \pm \pm \pm
DO NOT SCALE THIS DRAWING
MATERIAL

| 160 | 1006774 | | INSULATOR, WRAPOST-FEMALE | 3 |
|----------|-------------------------|-------------------|-----------------------------|----------|
| 160 | 1006781-1 | | CONTACT, WRAPOST-FEMALE | 2 |
| 1 | 2004920 | | PLATE, CONNECTOR | 1 |
| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |

| | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------|--------------|------------------------|
| 011 | | LIST OF MATERIALS | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>J.R. Cameron</i> 4/14/65 CHECKED <i>C. DeKrom</i> 4/14/65 APPROVED <i>G. DeKrom</i> 4/14/65 APPROVED <i>Edna Christ</i> 12/14/65 | | CONNECTOR PLATE ASSY INDICATOR DIGITAL AGC DSKY | | |
| APPROVED MIT <i>Wg Rhi</i> 7/13/65 | DATE 7/13/65 | CODE IDENT NO. 80230 | SIZE C | DRAWING NO. 2003913 |
| APPROVED MSC | DATE | SCALE 2/1 | SHEET 1 OF 1 | |

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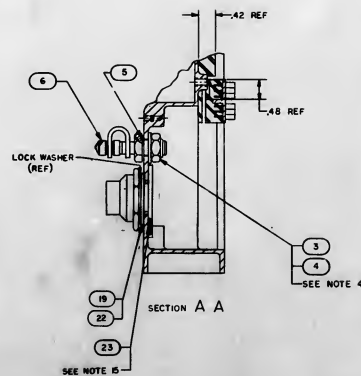
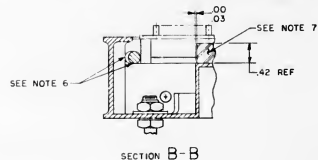
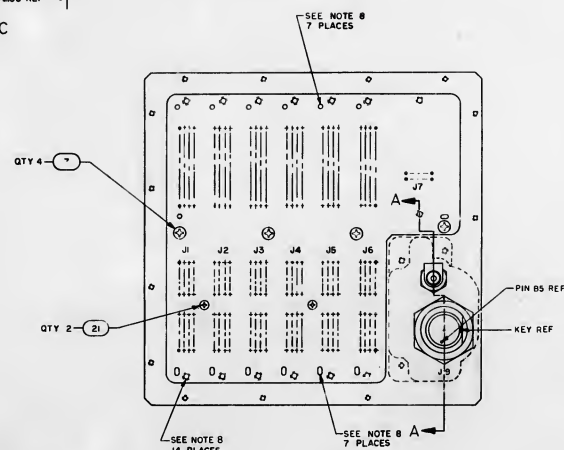
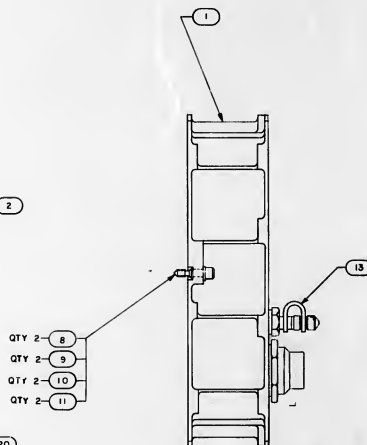
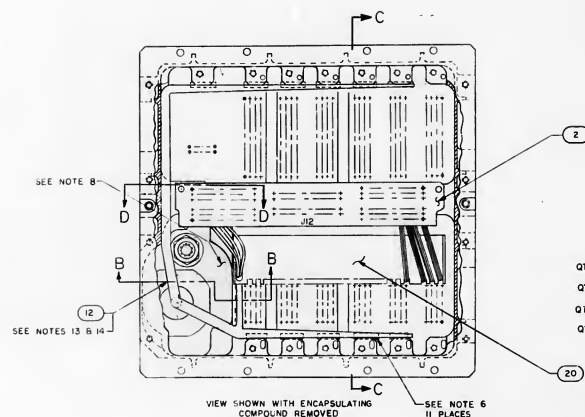
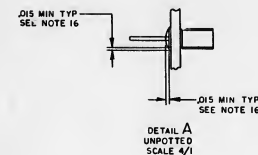
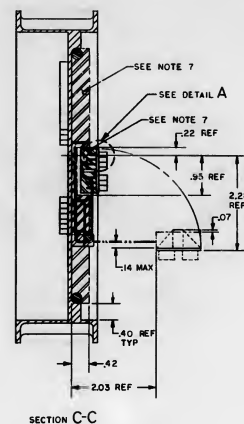
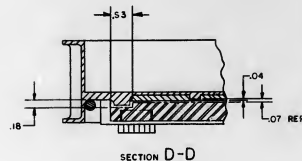
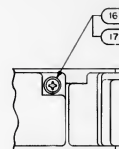
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MARK NEAR & FAR SIDE APPROXIMATELY WHERE SHOWN .07/.09 HIGH BLACK CHARACTERS PER ND1002019 & ND1002122 TYPE II, CLASS 2, USING INK 1006271-11
3. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
4. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136

| | | |
|-------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING |
| | | MATERIAL |
| 2003912 | | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| | | | | |
|------------------------------------------------|-------------------------|--------------------------------------------|-----------------------------------------------------|--------------|
| 30 | 1006774 | | INSULATOR, WRAPOST-FEMALE | 3 |
| 30 | 1006781-1 | | CONTACT, WRAPOST-FEMALE | 2 |
| 1 | 2004921 | | PLATE, CONNECTOR | 1 |
| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| OII | LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN | <i>[Signature]</i> | 4/1/65 | CONNECTOR PLATE ASSY INDICATOR ALARM AGC DSKY | |
| CHECKED | <i>C. DeKoven</i> | 4/11/65 | | |
| APPROVED | <i>[Signature]</i> | 4/11/65 | | |
| APPROVED | <i>[Signature]</i> | 4/11/65 | | |
| APPROVED MIT | <i>[Signature]</i> | 7-13-65 | CODE IDENT NO. | SIZE |
| APPROVED MSC | <i>[Signature]</i> | 7-13-65 | 80230 | C |
| DATE | | SCALE | 2/1 | SHEET 1 OF 1 |

| | | | | | | |
|-------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----|--------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ϕ DO NOT SCALE THIS DRAWING | MIT INSTRUMENTATION LAB CAMBRIDGE, MASS DRAWN BY J. Simpson CHECKED E. Leger APPROVED R. H. Smith APPROVED S. K. Hsu | MANFRED SPACECRAFT CENTER HOUSTON, TEXAS HOUSING ASSY (MOUNTING) PUSH BUTTON SWITCH AGC DSKY | | |
| 2003875 | | | APPROVED M. J. Griffin | CODE IDENT NO. | SIZ | DRAWING NO. |
| 2003984 | | MATERIAL | APPROVED WSC | 80230 | D | 2003933 |
| 2003974 | | | APPROVED MSC | SCALE 3/1 | | SHEET 1 OF 1 |
| NEXT ASST | USED ON | | | | | |
| APPLICATION | | | | | | |



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
P RESCIBED BY MIL-D-70327
2. IDENTIFY WITH PART NO. PER NID002019
UNLESS OTHERWISE INDICATED
3. MOUNTING TORQUE FOR FIND NO. 3 TO BE 10 TO 15 FT-LBS
4. AR DENOTES AS REQUIRED
5. BOND: FIND NO. 12 TO FIND NO. 1 PER NID002004 TYPE III
6. AREAS INDICATED
7. ENCAPSULATED INDICATED AREAS PER NID002036
8. INDICATED AREA AND HOLES TO BE FREE FROM ENCAPSULATING COMPOUND
UNLESS OTHERWISE INDICATED. NO ENCAPSULATING COMPOUND TO BE USED. FIND NO. 18
9. WIRE 5/16 LEAD ELECTRICAL & PER NID002031
10. EXCEPT FIND NID018 HAVE 5 TO 6 TURNS OF UNSHIELDED WIRE, 1/2 TO 1 1/2
TURNS 1/ SHIELDED WIRE, STRIP LENGTH OF 1/16 TO 1/10, AND STRIP FORCE
OF 5 LB INCH
11. INDICATED AREAS TO BE FREE OF WIRES AND ENCAPSULATING
COMPOUND TO THE LEVEL OF SURFACE A
12. WELD PER NID002070
13. SOLDER LEADS OF FIND NO. 12 PER NID002071 USING SOLDER PER NID002075
14. MOUNTING TORQUE FOR CONNECTING OF FIND NO. 12 TO BE 20 TO 25 FT-LBS
15. SOLDER AND SOLDER FLUX TO BE APPLIED TO AND REPLACE WITH FIND NO. 23
SEAL INSULATING COMPOUND PER NID002004 TYPE III

| | |
|---------|---|
| 2003954 | E |
|---------|---|

| | | |
|-------------|--------------------------------------------------------|---------------------------------|
| | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | UNIT |
| | TOLERANCES ON: | M INSTRUMENTS CANNON |
| | FRACTIONS DECIMALS ANGLES | DRAWING <i>Cd 006</i> |
| | = .001 ° | CHECKED <i>LEE</i> |
| | DO NOT SCALE THIS DRAWING | APPROVAL <i>Lee</i> |
| | MATERIAL | APPETUAL <i>Lee</i> |
| | HEAT TREATMENT | NASA APPROVAL |
| 2003905 | USED ON | BMT APPROVAL <i>[Signature]</i> |
| NEXT ASBY | FINAL FINISH | |
| APPLICATION | | |



| | |
|-------------|----|
| | |
| | |
| | |
| | |
| NEXT ASSY | UT |
| APPLICATION | |



THIS SHT REPLACES SHT 2
REV -- WITH CHANCES

—SURFACE A
4 PLACES
SEE NOTE

[illegible]

2003954 E

| REVISIONS | | 2003 |
|-----------|------------------------|---------|
| A | REVISED PER TORR 22542 | 4/16/64 |
| B | REVISED PER TORR 23084 | 4/16/64 |
| C | REVISED PER TORR 24234 | 4/16/64 |
| D | REVISED PER TORR 24665 | 4/16/64 |
| E | REVISED PER TORR 24665 | 4/16/64 |

LEAD ELECTRICAL

| COND IDENT | REMARKS | FROM | FIND NO | COLOR | SIZE AWG | LENGTH | TO | REMARKS |
|------------|---------|--------|---------|-------|----------|--------|-------|---------|
| A | | J2-166 | 14 | VEL | 30 | AR | J2-76 | |
| A2 | | -167 | 14 | VEL | 30 | | J2-43 | |
| A3 | | -160 | 15 | WHT | 26 | | J2-18 | |
| A4 | | -169 | 14 | VEL | 30 | | J2-34 | |
| A5 | | -164 | 14 | VEL | 30 | | J2-40 | |
| A6 | | -163 | 14 | VEL | 30 | | J2-38 | |
| A7 | | -166 | 14 | VEL | 30 | | J2-39 | |
| A8 | | -147 | 15 | WHT | 26 | | J2-38 | |
| A9 | | -162 | 14 | VEL | 30 | | J2-34 | |
| A10 | | -141 | 14 | VEL | 30 | | J2-41 | |
| A11 | | -136 | 14 | VEL | 30 | | J2-29 | |
| A12 | | -131 | 14 | VEL | 30 | | J2-29 | |
| A13 | | -187 | 14 | VEL | 30 | | J2-42 | |
| A14 | | -210 | 14 | VEL | 30 | | J2-49 | |
| A15 | | -182 | 15 | WHT | 26 | | J2-49 | |
| A16 | | -204 | 14 | VEL | 30 | | J2-56 | |
| A17 | | -182 | 14 | VEL | 30 | | J2-43 | |
| A18 | | -176 | 14 | VEL | 30 | | J2-38 | |
| A19 | | -175 | 14 | VEL | 30 | | J2-38 | |
| A20 | | -174 | 14 | VEL | 30 | | J2-38 | |
| A21 | | -170 | 14 | VEL | 30 | | J2-38 | |
| A22 | | -169 | 14 | VEL | 30 | | J2-38 | |
| A23 | | -168 | 14 | VEL | 30 | | J2-38 | |
| A24 | | -164 | 14 | VEL | 30 | | J2-38 | |
| A25 | | -163 | 14 | VEL | 30 | | J2-38 | |
| A26 | | -162 | 14 | VEL | 30 | | J2-38 | |
| A27 | | -161 | 14 | VEL | 30 | | J2-38 | |
| A28 | | -158 | 14 | VEL | 30 | | J2-38 | |
| A29 | | -157 | 14 | VEL | 30 | | J2-38 | |
| A30 | | -156 | 14 | VEL | 30 | | J2-38 | |
| A31 | | -155 | 15 | WHT | 26 | | J2-38 | |
| A32 | | -152 | 14 | VEL | 30 | | J2-38 | |
| A33 | | -151 | 14 | VEL | 30 | | J2-38 | |
| A34 | | -150 | 15 | WHT | 26 | | J2-38 | |
| A35 | | -149 | 14 | VEL | 30 | | J2-38 | |
| A36 | | -146 | 14 | VEL | 30 | | J2-38 | |
| A37 | | -145 | 14 | VEL | 30 | | J2-38 | |
| A38 | | -143 | 14 | VEL | 30 | | J2-38 | |
| A39 | | -143 | 14 | VEL | 30 | | J2-38 | |
| A40 | | -140 | 14 | VEL | 30 | | J2-38 | |
| A41 | | -139 | 14 | VEL | 30 | | J2-38 | |
| A42 | | -138 | 14 | VEL | 30 | | J2-38 | |
| A43 | | -137 | 14 | VEL | 30 | | J2-38 | |
| A44 | | -134 | 15 | WHT | 26 | | J2-38 | |
| A45 | | -133 | 14 | VEL | 30 | | J2-38 | |
| A46 | | -132 | 14 | VEL | 30 | | J2-38 | |
| A47 | | -131 | 14 | VEL | 30 | | J2-38 | |
| A48 | | -130 | 14 | VEL | 30 | | J2-38 | |
| A49 | | -129 | 14 | VEL | 30 | | J2-38 | |
| A50 | | -128 | 14 | VEL | 30 | | J2-38 | |
| A51 | | -127 | 14 | VEL | 30 | | J2-38 | |
| A52 | | -126 | 14 | VEL | 30 | | J2-38 | |
| A53 | | -125 | 14 | VEL | 30 | | J2-38 | |
| A54 | | -124 | 14 | VEL | 30 | | J2-38 | |
| A55 | | -123 | 14 | VEL | 30 | | J2-38 | |
| A56 | | -122 | 14 | VEL | 30 | | J2-38 | |
| A57 | | -121 | 14 | VEL | 30 | | J2-38 | |
| A58 | | -120 | 14 | VEL | 30 | | J2-38 | |
| A59 | | -119 | 14 | VEL | 30 | | J2-38 | |
| A60 | | -118 | 14 | VEL | 30 | | J2-38 | |
| A61 | | -117 | 14 | VEL | 30 | | J2-38 | |
| A62 | | -116 | 14 | VEL | 30 | | J2-38 | |
| A63 | | -115 | 14 | VEL | 30 | | J2-38 | |
| A64 | | -114 | 14 | VEL | 30 | | J2-38 | |
| A65 | | -113 | 14 | VEL | 30 | | J2-38 | |
| A66 | | -112 | 14 | VEL | 30 | | J2-38 | |
| A67 | | -111 | 14 | VEL | 30 | | J2-38 | |
| A68 | | -110 | 14 | VEL | 30 | | J2-38 | |
| A69 | | -109 | 14 | VEL | 30 | | J2-38 | |
| A70 | | -108 | 14 | VEL | 30 | | J2-38 | |
| A71 | | -107 | 14 | VEL | 30 | | J2-38 | |
| A72 | | J2-106 | 14 | VEL | 30 | AR | J2-60 | |

LEAD ELECTRICAL

| COND IDENT | REMARKS | FROM | FIND NO | COLOR | SIZE AWG | LENGTH | TO | REMARKS |
|------------|---------|--------|---------|-------|----------|--------|-------|---------|
| A73 | | J2-105 | 14 | VEL | 30 | AR | J2-56 | |
| A74 | | -104 | 14 | VEL | 30 | | J2-43 | |
| A75 | | -103 | 14 | VEL | 30 | | J2-43 | |
| A76 | | -102 | 14 | VEL | 30 | | J2-43 | |
| A77 | | -101 | 14 | VEL | 30 | | J2-43 | |
| A78 | | -100 | 15 | WHT | 26 | | J2-43 | |
| A79 | | -99 | 14 | VEL | 30 | | J2-43 | |
| A80 | | -98 | 14 | VEL | 30 | | J2-43 | |
| A81 | | -97 | 14 | VEL | 30 | | J2-43 | |
| A82 | | -96 | 15 | WHT | 26 | | J2-43 | |
| A83 | | -95 | 14 | VEL | 30 | | J2-43 | |
| A84 | | -94 | 14 | VEL | 30 | | J2-43 | |
| A85 | | -93 | 14 | VEL | 30 | | J2-43 | |
| A86 | | -92 | 14 | VEL | 30 | | J2-43 | |
| A87 | | -91 | 14 | VEL | 30 | | J2-43 | |
| A88 | | -90 | 14 | VEL | 30 | | J2-43 | |
| A89 | | -89 | 14 | VEL | 30 | | J2-43 | |
| A90 | | -88 | 15 | WHT | 26 | | J2-43 | |
| A91 | | -87 | 14 | VEL | 30 | | J2-43 | |
| A92 | | -86 | 14 | VEL | 30 | | J2-43 | |
| A93 | | -85 | 14 | VEL | 30 | | J2-43 | |
| A94 | | -84 | 14 | VEL | 30 | | J2-43 | |
| A95 | | -83 | 14 | VEL | 30 | | J2-43 | |
| A96 | | -82 | 14 | VEL | 30 | | J2-43 | |
| A97 | | -81 | 14 | VEL | 30 | | J2-43 | |
| A98 | | -80 | 15 | WHT | 26 | | J2-43 | |
| A99 | | -79 | 14 | VEL | 30 | | J2-43 | |
| A100 | | -78 | 14 | VEL | 30 | | J2-43 | |
| A101 | | -77 | 14 | VEL | 30 | | J2-43 | |
| A102 | | -76 | 14 | VEL | 30 | | J2-43 | |
| A103 | | -75 | 14 | VEL | 30 | | J2-43 | |
| A104 | | -74 | 14 | VEL | 30 | | J2-43 | |
| A105 | | -73 | 14 | VEL | 30 | | J2-43 | |
| A106 | | -72 | 14 | VEL | 30 | | J2-43 | |
| A107 | | -71 | 14 | VEL | 30 | | J2-43 | |
| A108 | | -70 | 15 | WHT | 26 | | J2-43 | |
| A109 | | -69 | 14 | VEL | 30 | | J2-43 | |
| A110 | | -68 | 14 | VEL | 30 | | J2-43 | |
| A111 | | -67 | 14 | VEL | 30 | | J2-43 | |
| A112 | | -66 | 14 | VEL | 30 | | J2-43 | |
| A113 | | -65 | 14 | VEL | 30 | | J2-43 | |
| A114 | | -64 | 14 | VEL | 30 | | J2-43 | |
| A115 | | -63 | 15 | WHT | 26 | | J2-43 | |
| A116 | | -62 | 14 | VEL | 30 | | J2-43 | |
| A117 | | -61 | 14 | VEL | 30 | | J2-43 | |
| A118 | | -60 | 14 | VEL | 30 | | J2-43 | |
| A119 | | -59 | 14 | VEL | 30 | | J2-43 | |
| A120 | | -58 | 14 | VEL | 30 | | J2-43 | |
| A121 | | -57 | 14 | VEL | 30 | | J2-43 | |
| A122 | | -56 | 14 | VEL | 30 | | J2-43 | |
| A123 | | -55 | 14 | VEL | 30 | | J2-43 | |
| A124 | | -54 | 14 | VEL | 30 | | J2-43 | |
| A125 | | -53 | 14 | VEL | 30 | | J2-43 | |
| A126 | | -52 | 14 | VEL | 30 | | J2-43 | |
| A127 | | -51 | 14 | VEL | 30 | | J2-43 | |
| A128 | | -50 | 14 | VEL | 30 | | J2-43 | |
| A129 | | -49 | 14 | VEL | 30 | | J2-43 | |
| A130 | | -48 | 14 | VEL | 30 | | J2-43 | |
| A131 | | -47 | 14 | VEL | 30 | | J2-43 | |
| A132 | | -46 | 14 | VEL | 30 | | J2-43 | |
| A133 | | -45 | 14 | VEL | 30 | | J2-43 | |
| A134 | | -44 | 14 | VEL | 30 | | J2-43 | |
| A135 | | -43 | 14 | VEL | 30 | | J2-43 | |
| A136 | | -42 | 14 | VEL | 30 | | J2-43 | |
| A137 | | -41 | 14 | VEL | 30 | | J2-43 | |
| A138 | | -40 | 14 | VEL | 30 | | J2-43 | |
| A139 | | -39 | 14 | VEL | 30 | | J2-43 | |
| A140 | | -38 | 14 | VEL | 30 | | J2-43 | |
| A141 | | -37 | 14 | VEL | 30 | | J2-43 | |
| A142 | | -36 | 14 | VEL | 30 | | J2-43 | |
| A143 | | -35 | 14 | VEL | 30 | | J2-43 | |
| A144 | | J2-34 | 15 | WHT | 26 | AR | J2-6 | |

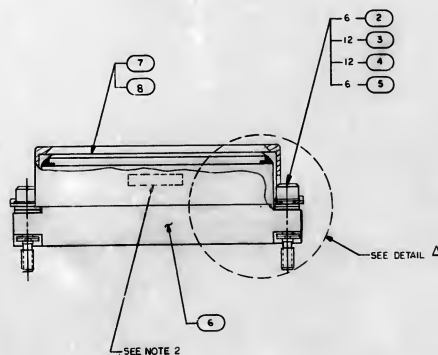
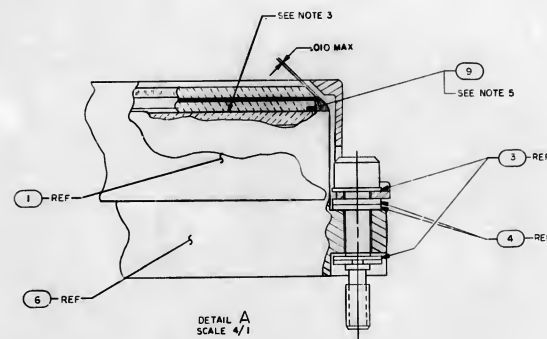
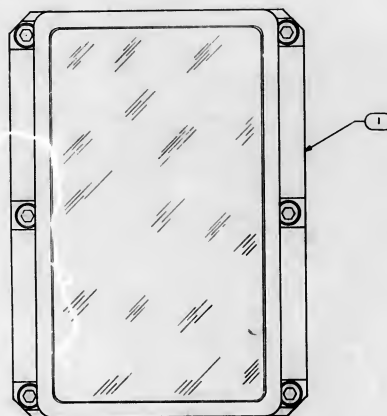
LEAD ELECTRICAL

| COND IDENT | REMARKS | FROM | FIND NO | COLOR | SIZE AWG | LENGTH | TO | REMARKS |
|------------|---------|--------|---------|-------|----------|--------|-------|---------|
| A145 | | J2-32 | 14 | VEL | 30 | AR | J2-78 | |
| A146 | | -31 | 14 | VEL | 30 | | J2-70 | |
| A147 | | -30 | 14 | VEL | 30 | | J2-53 | |
| A148 | | -29 | 14 | VEL | 30 | | J2-53 | |
| A149 | | -28 | 14 | VEL | 30 | | J2-53 | |
| A150 | | -27 | 14 | VEL | 30 | | J2-53 | |
| A151 | | -26 | 14 | VEL | 30 | | J2-53 | |
| A152 | | -25 | 14 | VEL | 30 | | J2-53 | |
| A153 | | -24 | 14 | VEL | 30 | | J2-53 | |
| A154 | | -23 | 14 | VEL | 30 | | J2-53 | |
| A155 | | -22 | 14 | VEL | 30 | | J2-53 | |
| A156 | | -21 | 14 | VEL | 30 | | J2-53 | |
| A157 | | -20 | 14 | VEL | 30 | | J2-53 | |
| A158 | | -19 | 14 | VEL | 30 | | J2-53 | |
| A159 | | -18 | 14 | VEL | 30 | | J2-53 | |
| A160 | | -17 | 14 | VEL | 30 | | J2-53 | |
| A161 | | -16 | 14 | VEL | 30 | | J2-53 | |
| A162 | | -15 | 14 | VEL | 30 | | J2-53 | |
| A163 | | -14 | 14 | VEL | 30 | | J2-53 | |
| A164 | | -13 | 14 | VEL | 30 | | J2-53 | |
| A165 | | -12 | 14 | VEL | 30 | | J2-53 | |
| A166 | | -11 | 14 | VEL | 30 | | J2-53 | |
| A167 | | -10 | 14 | VEL | 30 | | J2-53 | |
| A168 | | -9 | 14 | VEL | 30 | | J2-53 | |
| A169 | | -8 | 14 | VEL | 30 | | J2-53 | |
| A170 | | -7 | 14 | VEL | 30 | | J2-53 | |
| A171 | | -6 | 14 | VEL | 30 | | J2-53 | |
| A172 | | -5 | 14 | VEL | 30 | | J2-53 | |
| A173 | | -4 | 14 | VEL | 30 | | J2-53 | |
| A174 | | -3 | 14 | VEL | 30 | | J2-53 | |
| A175 | | -2 | 14 | VEL | 30 | | J2-53 | |
| A176 | | -1 | 14 | VEL | 30 | | J2-53 | |
| A177 | | J2-183 | 15 | WHT | 26 | AR | J2-6 | |

2003954 E

| | | | |
|--------------------------------|------------------------|-------------------------------|---------|
| QTY | PART OR IDENTIFYING NO | DESCRIPTION OR IDENTIFYING NO | FILE NO |
| LIST OF MATERIALS | | | |
| MANNED SPACECRAFT CENTER | | | |
| HOUSTON, TEXAS | | | |
| INSTRUMENTATION LAB | | | |
| CONTRACT NO. 100-100-100 | | | |
| PROJECT NO. 100-100-100 | | | |
| SUBJECT: MAIN HOUSING ASSEMBLY | | | |
| AGC DSKY | | | |
| DATE: 10/10/64 | | | |
| BY: 100-100-100 | | | |
| CHECKED: 100-100-100 | | | |
| APPROVED: 100-100-100 | | | |
| REVISIONS | | | |
| 1. 100-100-100 | | | |
| 2. 100-100-100 | | | |
| 3. 100-100-100 | | | |
| 4. 100-100-100 | | | |
| 5. 100-100-100 | | | |
| 6. 100-100-100 | | | |
| 7. 100-100-100 | | | |
| 8. 100-100-100 | | | |
| 9. 100-100-100 | | | |
| 10. 100-100-100 | | | |
| 11. 100-100-100 | | | |
| 12. 100-100-100 | | | |
| 13. 100-100-100 | | | |
| 14. 100-100-100 | | | |
| 15. 100-100-100 | | | |
| 16. 100-100-100 | | | |
| 17. 100-100-100 | | | |
| 18. 100-100-100 | | | |
| 19. 100-100-100 | | | |
| 20. 100-100-100 | | | |
| 21. 100-100-100 | | | |
| 22. 100-100-100 | | | |
| 23. 100-100-100 | | | |
| 24. 100-100-100 | | | |
| 25. 100-100-100 | | | |
| 26. 100-100-100 | | | |

1



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. IDENTIFY WITH PART NO. PER N010209.2 AND SERIALIZE PER ID102023
3. BRIND FINO 7.0 GR 0.6 TO FINE NO.6 USING A THERMOSETTING OPTICALLY CURATIVE RESIN (7070) CURE AT 140±1° F FOR A MINIMUM OF 24 HRS. FINO 7.0 R 0.6S WILL BE CENTRALLY LOCATED ON THE GLASS FACE OF FINO NO.6 WITHIN ±.015"
4. COMPLETED ASSY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET WHEN MOUNTED TO SIMULATE APPLICATION THE REQUIREMENTS OF PER N010209.2, 4.2.1
5. APPLY A LAYER OF FINO 9.5S AROUND THE ENTIRE PERIMETER OF THE INTERFACE OF FINO N0.5 AND FINO N0.7 OF FINO NO.6 AS SHOWN, CURE AT ROOM TEMPERATURE FOR A MINIMUM OF 24 HRS. FINO 9.5S WILL COMPLETELY COVER THE INTERFACIAL BUTRAL BINDER OF FINO 7.0 OF FINO NO.6

| AR | AR | ITEM | DESCRIPTION | QTY | UNIT | PRICE | TOTAL |
|-------|-------|--------------|---------------------------------|-----|------|-------------------|-------|
| | 1 | 200638-002 | SEALING COMPOUND, SILICONE | | | | |
| | 1 | 2006475-002 | PANEL INDICATOR (V/L) | | | | |
| | 1 | 2006745-001 | PANEL INDICATOR (V/L) | | | | |
| | 1 | 2006746-001 | INDICATOR, DIGITAL THERMAL, VAC | | | | |
| | 6 | M316533-4014 | RING, RETAINING | | | | |
| | 12 | N456005 | WASHER, FLAT | | | | |
| | 12 | 2004544-4 | WASHER, FLAT | | | | |
| | 6 | 2004932-004 | SCREW, JACKING | | | | |
| | 6 | 2004699-001 | FRAME, INDICATOR COVER | | | | |
| QTY | QTY | | PART OR | | | NOMENCLATURE OR | |
| FLTD | FLTD | | IDENTIFYING NO | | | DESCRIPTION | |
| TOTAL | TOTAL | | | | | LIST OF MATERIALS | |

[illegible]

4

3

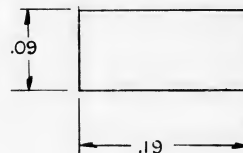
2

1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHT OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.

A 6863002

| REVISIONS | | | | | | | 25910 | |
|-----------|------|--------------------------|----|-----|------|----------|-------|--|
| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED | | |
| — | | INITIAL RELEASE PER TDRR | | | | | | |
| A | | CHANGED PER TDRR 28818 | | | | | | |



NOTES

1. MAKE FROM 1006806-13 OR 1006806-6
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

| | | |
|-------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm .01 \pm DO NOT SCALE THIS DRAWING |
| | | |
| | | |
| | | |
| | | |
| | | MATERIAL |
| 2003083 | | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | | FIND NO. |
|------------------------------------------------|----------------------------|----------------------|--------------------------------------------|------------|-------------|
| LIST OF MATERIALS | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN | <i>W. Perren</i> | <i>3 Feb 66</i> | TAPE, ADHESIVE AGC LOGIC MODULE | | |
| CHECKED | <i>C. Mayne</i> | <i>3 Feb 66</i> | | | |
| APPROVED | | | | | |
| APPROVED | <i>E. C. Metzger</i> | <i>3 Feb 66</i> | | | |
| APPROVED MIT | <i>W. Perren</i> | <i>3 Feb 66</i> | CODE IDENT NO. | SIZE | DRAWING NO. |
| | <i>E. C. METZGER</i> | | 80230 | C | 2003989 |
| APPROVED MSC | | DATE | SCALE | SHEET OF | |

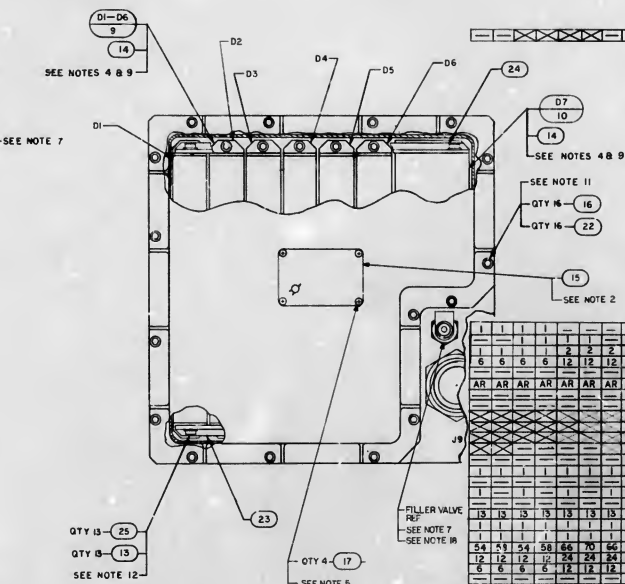
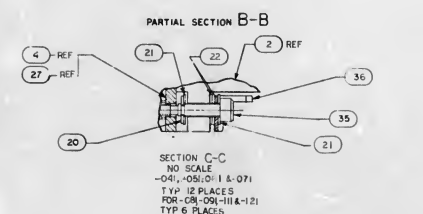
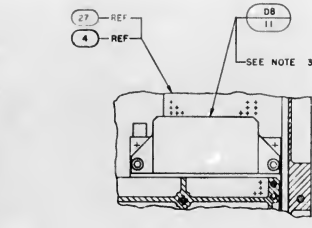
4

3

2

1

2003989 A



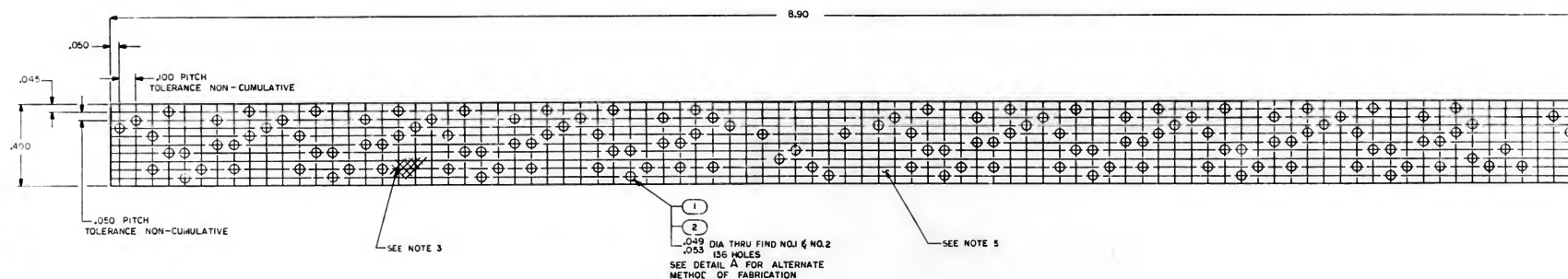
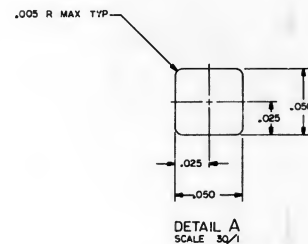
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| — | — | X | X | X | X | — | — | — | — | 2005977 | SIGNAL FLOW DIAGRAM | REF |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|---------------------|-----|

[illegible]

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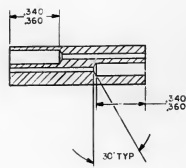
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|---------------------------------------------|--|-------------|--|----------------------------------------------------------------|--|
| LIST OF MATERIALS | | DESCRIPTION | | NO | |
| MANNED SPACECRAFT CENTER | | | | | |
| HOUSTON TEXAS | | | | | |
| AGC DSKY ASSEMBLY | | | | | |
| CODE IDENT NO | | SIZE | | NASA DRAWING NO | |
| 80230 | | J | | 2003994 | |
| SCALE <input checked="" type="checkbox"/> 1 | | WT | | SHEET <input type="checkbox"/> 1 OF <input type="checkbox"/> 1 | |

| REVISIONS | | | | | |
|-----------|------|------------------------|-----|------|----------|
| SYM | ZONE | DESCRIPTION | CHR | DATE | APPROVED |
| A | | REVISED PER TORR 20042 | | | |
| B | | REVISED PER TORR 22465 | | | |
| C | | REVISED PER TORR 33441 | | | |

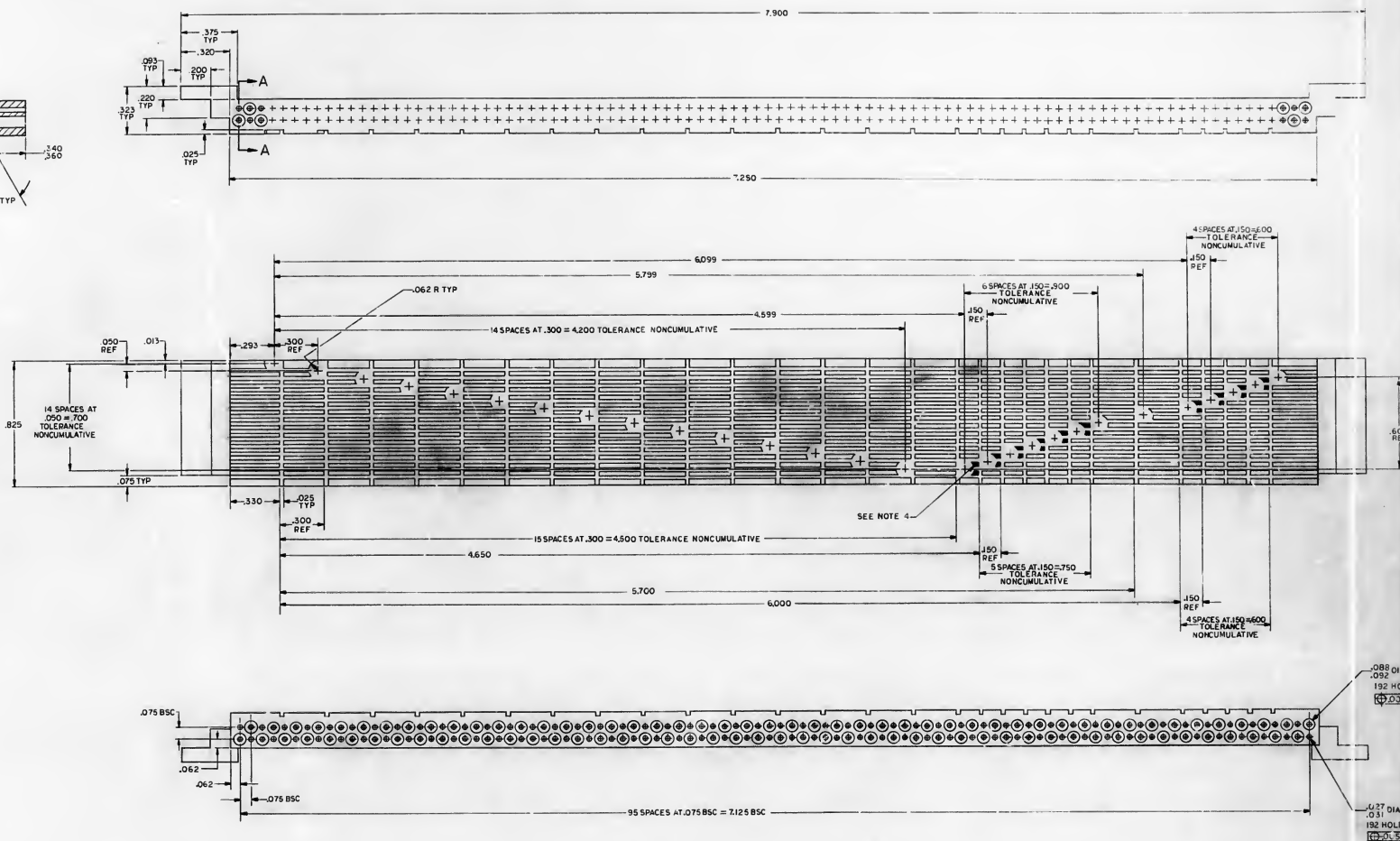


- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: PLASTIC SHEET .006/.009 THK PER MIL-P-15035, TYPE FBI
 3. THREADS IN PLASTIC SHEET TO RUN DIAGONALLY
 4. IDENTIFY WITH PART NO. PEP 791102019
 5. APPLY FIND NO.2 TO NEARSIDE OF FIND NO.1
 6. AR DENOTES AS REQUIRED

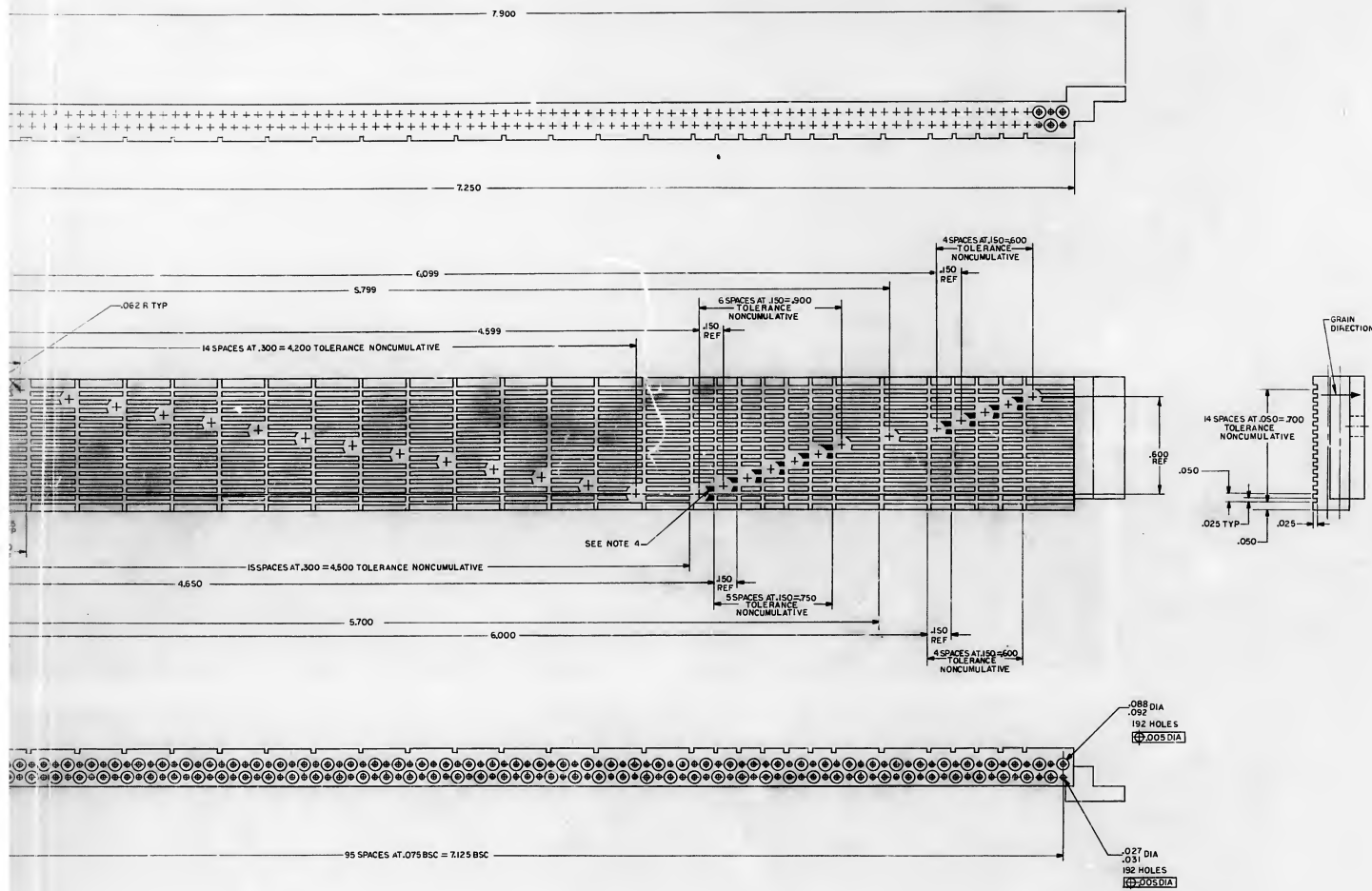
| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| UNIT IS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS - RESISTORS ANGLES A - \pm 0.001 INCHES B - \pm 0.0005 INCHES C - \pm 0.0002 INCHES DO NOT SCALE THE DRAWING | | AR 100606A -28 INSULATOR KIT 1 200206A-001 INSULATOR QTY PART OR 1001 IDENTIFY NO LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS INSTRUMENTATION LAB CANNONVILLE, UTAH DRAWN <i>W. J. Smith</i> 1/20/62 CHECKED <i>W. J. Smith</i> 1/20/62 APPROVED <i>W. J. Smith</i> 1/20/62 MATERIALS APPROVED BY <i>W. J. Smith</i> 1/20/62 APPROVED BY <i>W. J. Smith</i> 1/20/62 COX IDENT NO 1521 DRAWING NO 2004008 DATE SCALE 1"=1" SHEET 1 OF 1 | |
| 2003005 | SEE NOTE 2 | | |
| NEXT ABY USED ON APPLICATION | | | |



SECTION A-A



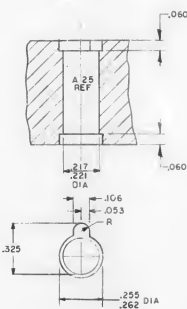
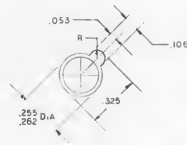
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-O-70327
 2. MATERIAL: PLASTIC SHEET, LAMINATED PER MIL-P-18177, TYPE GEE
 3. IDENTIFY WITH DRAWING NO. AND REVISION PER NID00209
 4. DARKENED AREAS DENOTE AREAS WHERE BREAKOFFS ARE PERMISSIBLE



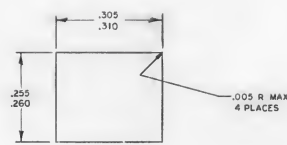
| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|--------------------|
| QTY REQ | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | FIG NO |
| LIST OF MATERIALS | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DIODE BLOCK ERASABLE MEMORY | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES 1/16 1/32 1/64 .005 .010 .015 .020 .030 .040 .050 .060 .070 .080 .090 .100 .125 .150 .175 .200 .250 .300 .375 .500 .625 .750 .875 1.000 1.250 1.500 1.750 2.000 2.500 3.000 3.750 4.000 4.500 5.000 5.500 6.000 6.500 7.000 7.500 8.000 8.500 9.000 9.500 10.000 DO NOT SCALE THIS DRAWING NATURAL SEE NOTE 2 | | | |
| 2003012 | NEAT TREATMENT | NASA APPROVAL | CODE IDENT NO SIZE |
| NEXT ASSY | USED ON | DATE | 80230 J |
| APPLICATION | TOTAL FIRST | DATE | 2004016 |

| HOLE IDENT | X DIM | Y DIM | HOLE DIA | QTY |
|---------------|-------|-------|-------------|-----|
| A1 | .000 | .500 | | |
| A2 | .856 | | | |
| A3 | 1.289 | | | |
| A4 | 2.155 | | | |
| A5 | 2.578 | | | |
| A6 | 3.444 | | | |
| A7 | 3.867 | | | |
| A9 | 4.733 | | | |
| A9 | 5.156 | | | |
| A10 | 6.522 | | | |
| A11 | 6.445 | | | |
| A12 | 7.311 | | | |
| A13 | 7.734 | | | |
| A14 | 8.600 | .500 | | |
| A15 | .000 | .000 | | |
| A16 | .866 | | | |
| A17 | 1.289 | | | |
| A18 | 2.155 | | | |
| A19 | 2.578 | | | |
| A20 | 3.444 | | | |
| A21 | 3.867 | | | |
| A22 | 4.733 | | | |
| A23 | 5.156 | | | |
| A24 | 6.022 | | | |
| A25 | 6.445 | | | |
| A26 | 7.311 | | | |
| A27 | 7.734 | | | |
| A28 | 8.600 | .000 | | |
| | | | | |
| B1 | .187 | .695 | | |
| B2 | .679 | .695 | | |
| B3 | .7821 | .695 | | |
| B4 | .8413 | .695 | | |
| B5 | .134 | .235 | | |
| B6 | .732 | | | |
| B7 | .1155 | | | |
| B8 | 1.423 | | | |
| B9 | 2.021 | | | |
| B10 | 2.289 | | | |
| B11 | 2.444 | | | |
| B12 | 2.712 | | | |
| B13 | 3.310 | | | |
| B14 | 3.578 | | | |
| B15 | 3.733 | | | |
| B16 | 4.001 | | | |
| B17 | 4.599 | | | |
| B18 | 4.867 | | | |
| B19 | 5.022 | | | |
| B20 | 5.250 | | | |
| B21 | 5.888 | | | |
| B22 | 6.156 | | | |
| B23 | 6.311 | | | |
| B24 | 6.579 | | | |
| B25 | 7.177 | | | |
| B26 | 7.445 | | | |
| B27 | 7.868 | | | |
| B28 | 8.466 | .235 | | |
| | | | | |
| C1 | .270 | .235 | | |
| C2 | .596 | | | |
| C3 | 1.559 | | | |
| C4 | 1.885 | | | |
| C5 | 2.848 | | | |
| C6 | 3.174 | | | |
| C7 | 4.137 | | | |
| C8 | 4.463 | | | |
| C9 | 5.426 | | | |
| C10 | 5.752 | | | |
| C11 | 6.715 | | | |
| C12 | 7.041 | | | |
| C13 | 8.004 | | | |
| C14 | 8.330 | .235 | | |

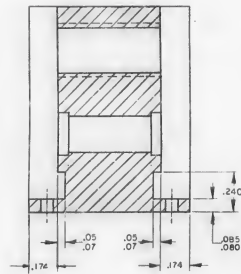
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: MAGNESIUM 260A-T5 PER QQ-M-31, TEMP 5
 3. FINISH: ANODIZE PER MIL-M-45202 TYPE 1, CLASS C
 4. ALL SURFACES 125° UNLESS OTHERWISE SPECIFIED
 5. REMOVE BURRS AND SHARP EDGES .005/0.5
 6. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .020 MAX
 7. INSTALL FIND NO.1 PER NO 1002121
 8. TAP HOLE AFTER ANODIZE. COAT PER NO1002040
 9. COAT THREADS OF FIND NO.1 WITH MIL-P-8595, COLOR YELLOW
 10. IDENTIFY WITH DRAWING NO. AND REVISION PER NO1002019



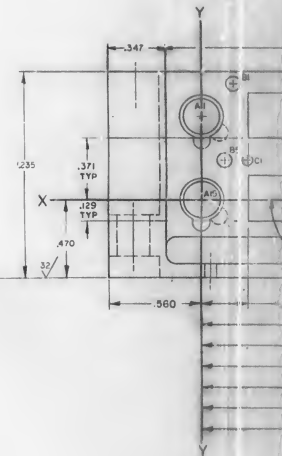
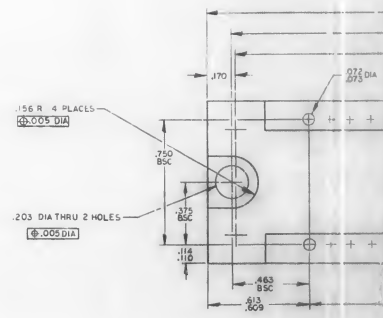
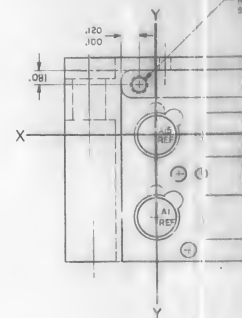
DETAIL B

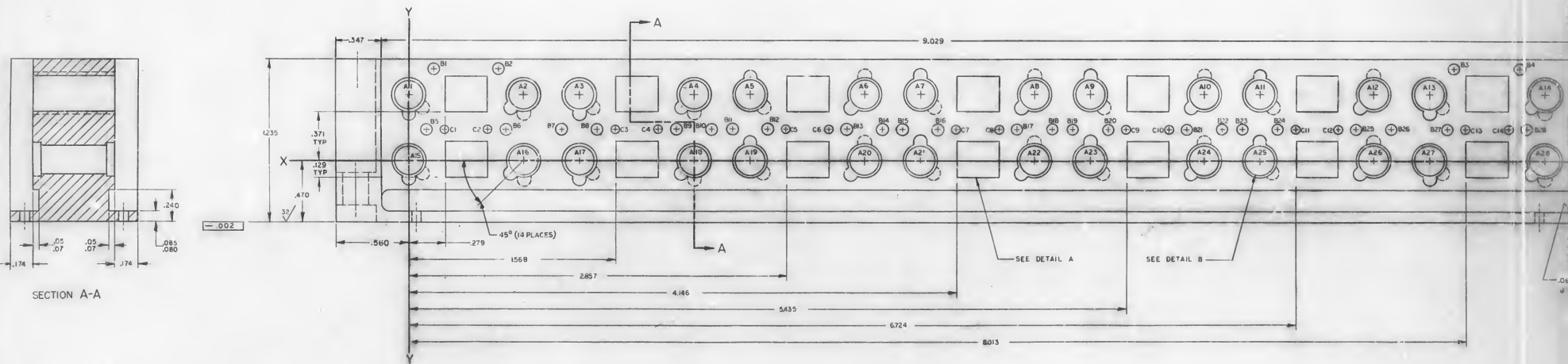
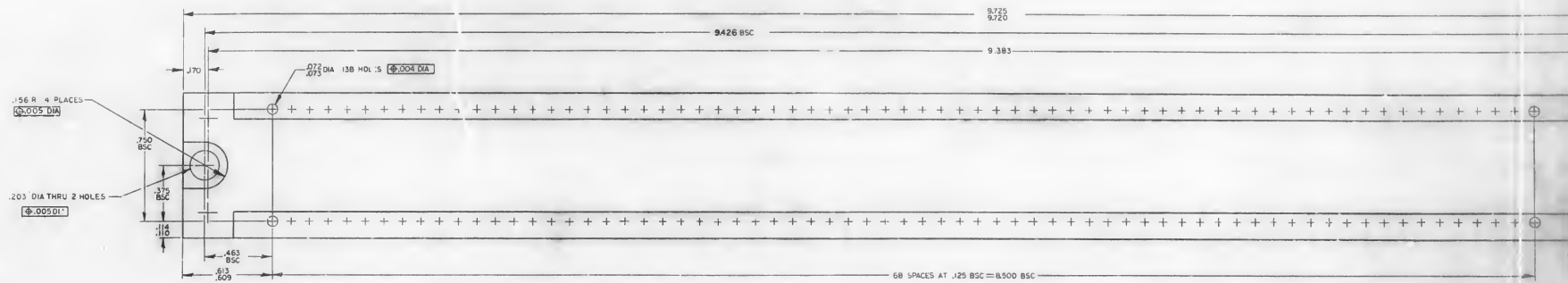


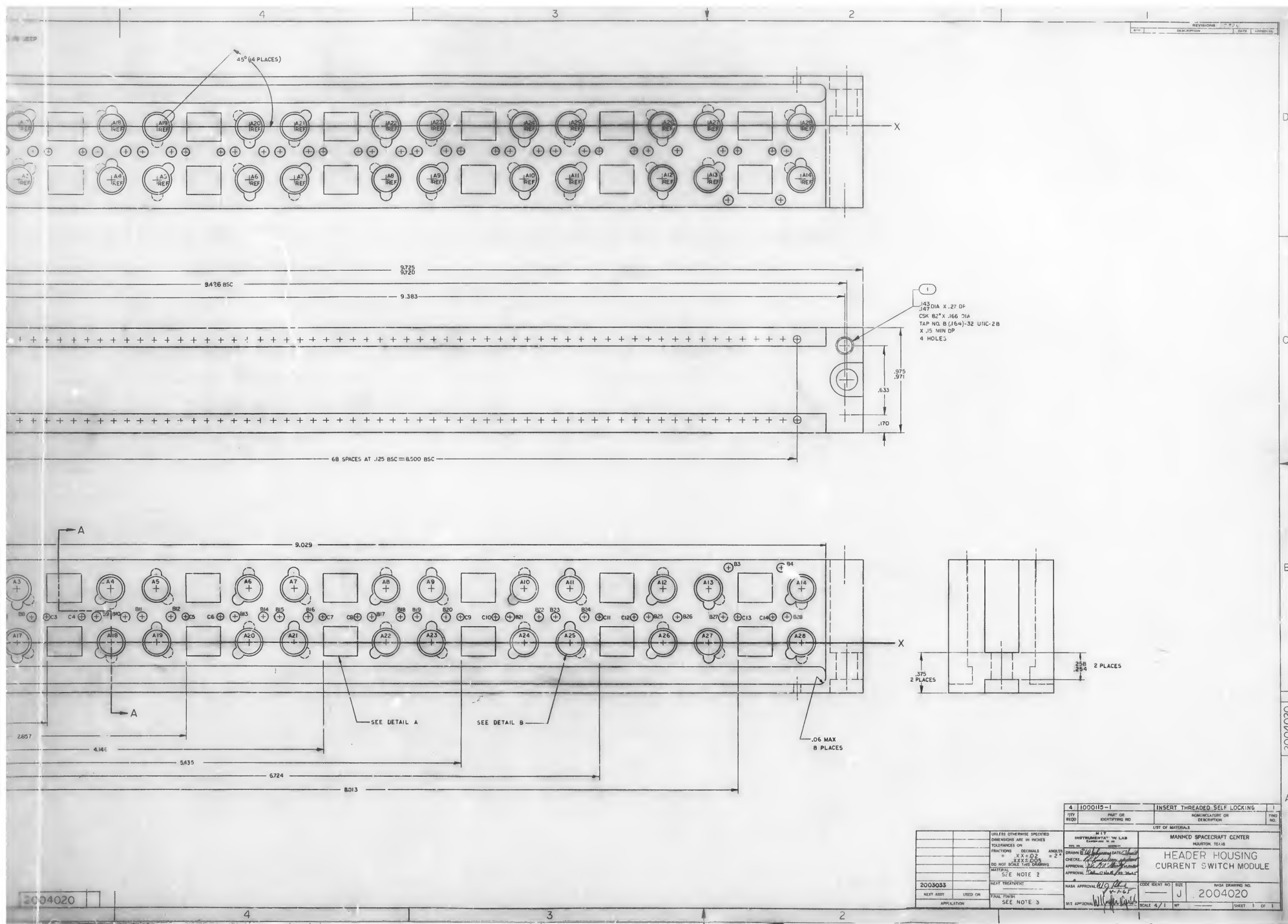
DETAIL A
SCALE 8=1
14 PLACES



SECTION A-A





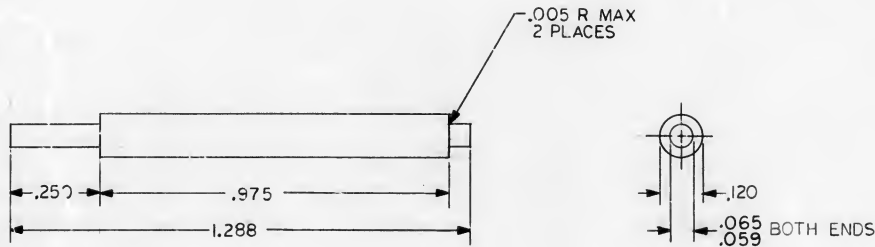


NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY AUTHORIZED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER ENDORSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

2004054

REVISIONS 19758

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|-------------|----|-----|------|----------|
| | | | | | | |



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: ROD GLASS EPOXY PER 1010692-5 TYPE GEE
3. IDENTIFY PER ND1002019
4. BREAK SHARP EDGES

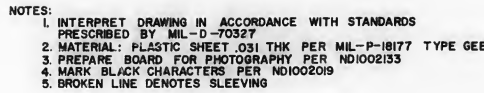
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|----------|-------------------------|-----------------------------|----------|
|----------|-------------------------|-----------------------------|----------|

LIST OF MATERIALS

| | | |
|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .005 — \pm — DO NOT SCALE THIS DRAWING |
| | | MATERIAL |
| 2003029 | | SEE NOTE 2 |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
|---------------------------------------------|-----------|--------------------------------------------|------------------------|
| DRAWN <i>Low S. Moore</i> | 25 FEB 65 | SPACER, INSULATED AGC POWER SUPPLY | |
| CHECKED <i>[Signature]</i> | 25 FEB 65 | | |
| APPROVED <i>[Signature]</i> | 25 FEB 65 | | |
| APPROVED <i>[Signature]</i> | 6-2-65 | CODE IDENT NO. SIZE 80230 C | DRAWING NO. 2004054 |
| APPROVED MSC <i>[Signature]</i> | DATE | SCALE 4/1 | SHEET 1 OF 1 |

| REVISIONS 19754 | | | | | | |
|-----------------|------|------------------------|----|-----|---------|----------|
| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
| A | | REVISED PER TORR 20951 | PH | RPL | Aug 65 | PH |
| B | | REVISED PER TORR 22564 | SP | OR | Sept 65 | W |

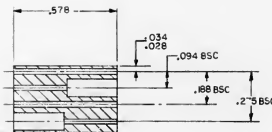
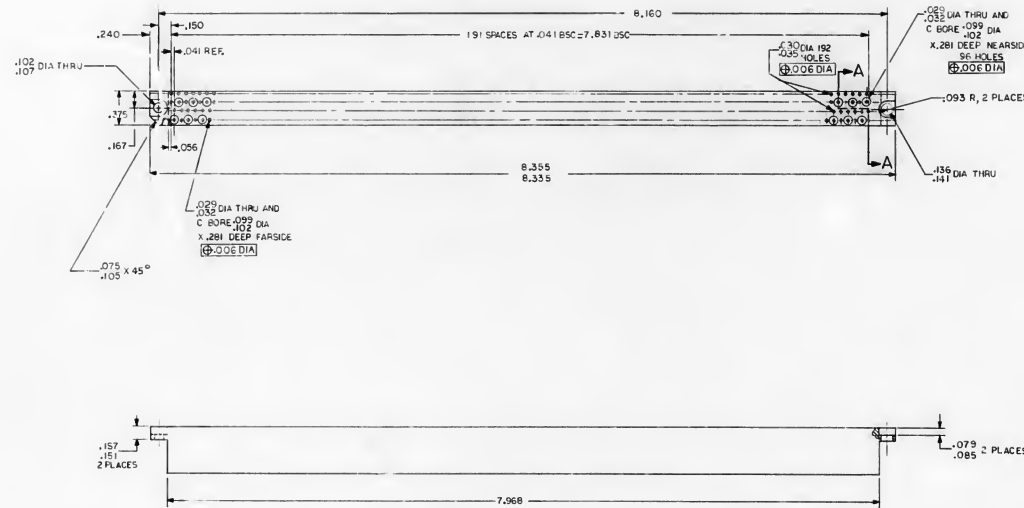


REF: PHOTOGRAPHIC MASTER DWG NO. 2004036

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| QTY REQD | | PART OR IDENTIFYING NO. | | NOMENCLATURE OR DESCRIPTION | | FIBD P/N | |
| | | | | LIST OF MATERIALS | | | |
| M I T INSTRUMENTATION LAB CAMBRIDGE, MASS | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING | | | | DRAWN <i>W. J. G. [Signature]</i> CHECKED <i>W. J. G. [Signature]</i> APPROVED <i>W. J. G. [Signature]</i> APPROVED <i>Edwin [Signature]</i> | | | |
| MATERIAL | | | | WIRING BOARD TOP CONTROL CIRCUIT | | | |
| 2003029 | | SEE NOTE 2 | | APPROVED M I T <i>W. J. G. [Signature]</i> 6-1-67 APPROVED <i>W. J. G. [Signature]</i> 6-6-67 DSC | | CODE IDENT NO. SIZE 80230 D | |
| NEXT ASSEMBLY USED ON | | APPLICATION: | | DATE SCALE 10/1 | | DRAWING NO. 2004058 | |
| | | | | SHEET 1 | | OF 1 | |

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL/PLASTIC SHEET PFR MIL-P-46177 TYPE GEE
 3. REMOVE BURRS AND SHARP EDGES .005 DIA
 4. ALL SURFACES 125/
 5. IDENTIFY WITH PART NUMBER NO 1002019

| REV | DATE | DESCRIPTION | BY | CHK | DATE | APPROVED |
|-----|------|------------------------|----|-----|------|----------|
| A | | REVISED PER TMR 10950 | JH | DEC | 1968 | WIK |
| B | | REVISED PER TMR 101263 | JH | DEC | 1968 | WIK |



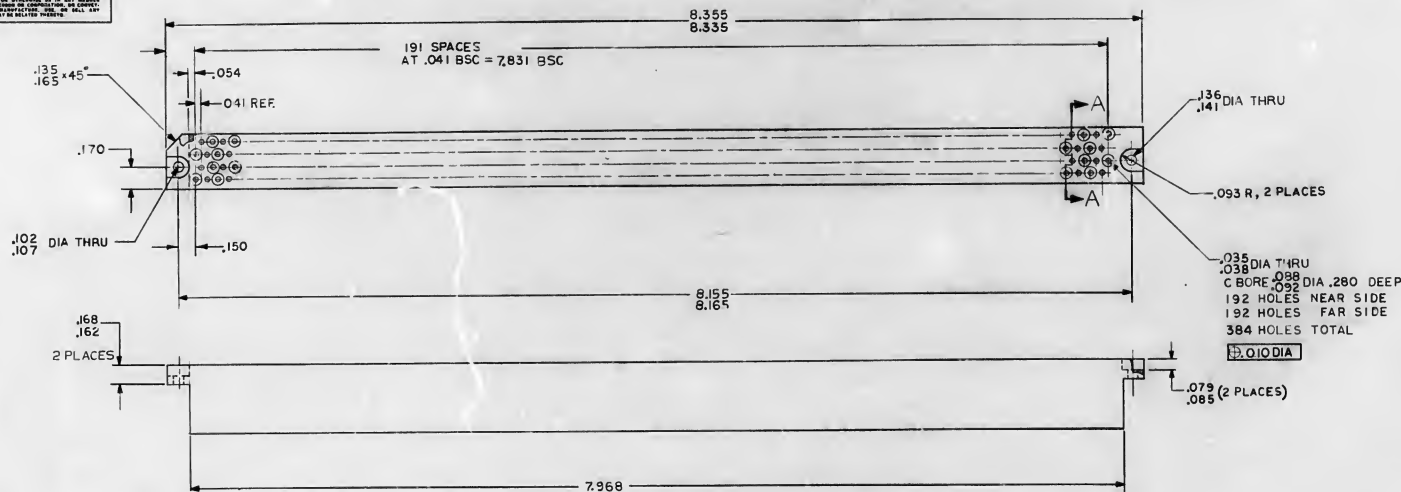
SECTION A-A
 SCALE: 4/1

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL/PLASTIC SHEET PFR MIL-P-46177 TYPE GEE
 3. REMOVE BURRS AND SHARP EDGES .005 DIA
 4. ALL SURFACES 125/
 5. IDENTIFY WITH PART NUMBER NO 1002019

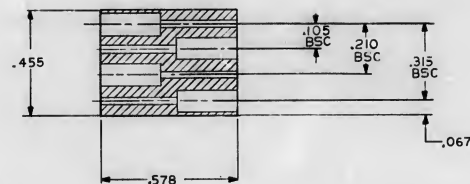
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|-----------------------------------------------|-------------------------|-----------------------------|--------------|
| QTY | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIG NO. |
| LIST OF MATERIALS | | | |
| MILITARY INSTRUMENTATION LAB CAMMERIDGE MASS | | | |
| MANNED SPACECRAFT C'TER HOUSTON TEXAS | | | |
| COMPONENT BLOCK, RESISTOR FIXED MEMORY MODULE | | | |
| DRAWN: [Signature] DATE: 12/16/68 | | | |
| CHECKED: [Signature] DATE: 12/16/68 | | | |
| APPROVED: [Signature] DATE: 12/16/68 | | | |
| MATERIAL | | | |
| SEE NOTE 2 | | | |
| 2003052 | CODE IDENT NO | SIZE | DRAWING NO. |
| 2003052 | 60230 | E | 2004064 |
| APPROVED: [Signature] | DATE | SCALE | SHEET 1 OF 1 |

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| REVISIONS 20043 | | | |
|-----------------|------------------------|---------|----------|
| SYM | DESCRIPTION | DATE | APPROVAL |
| A | REVISED PER TORR 20950 | 2/20/04 | WHL |
| B | REVISED PER TORR 22263 | 2/20/04 | WHL |
| C | REVISED PER TORR 22555 | 2/20/04 | WHL |



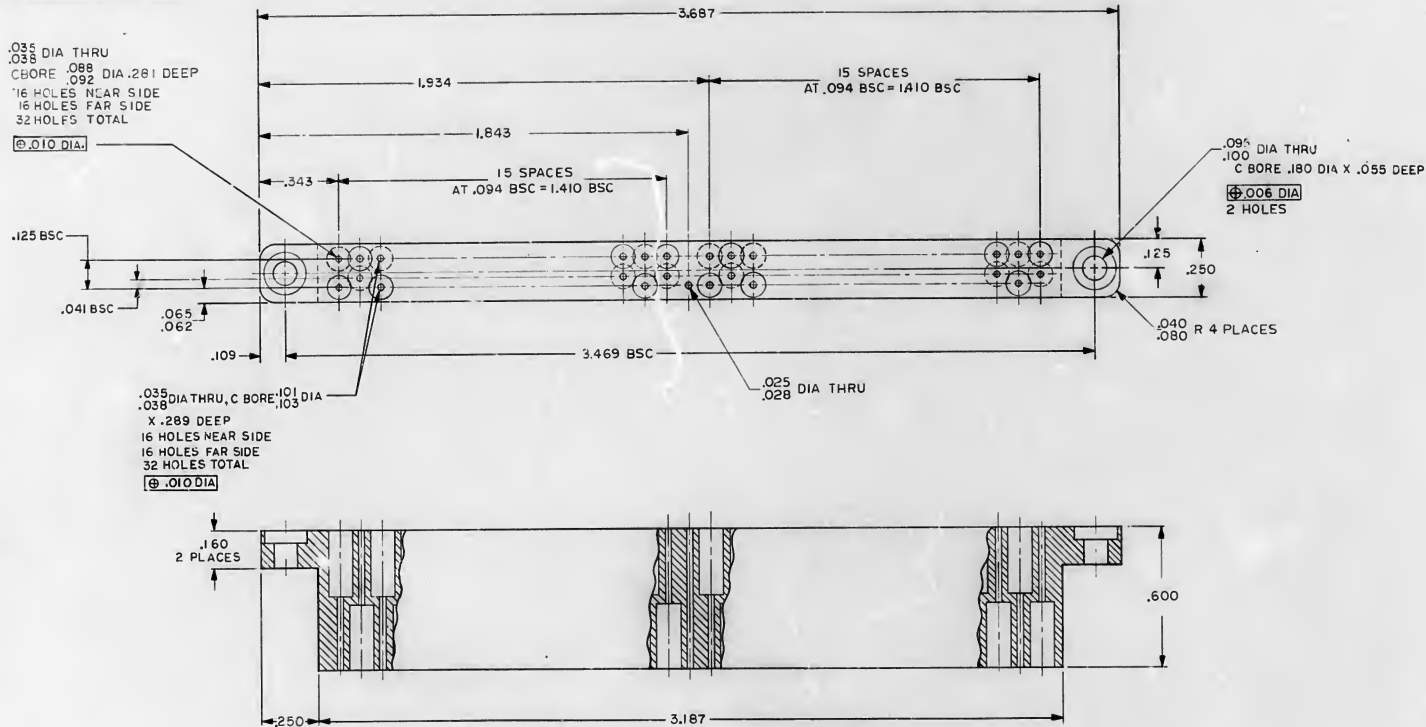
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: PLASTIC SHEET PER MIL-P-18177, TYPE GEE
 3. REMOVE BURRS AND SHARP EDGES .005/.015
 4. ALL SURFACES 125 ✓
 5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADIUS TO BE .010 MAX.
 6. IDENTIFY WITH PART NO. PER ND 1002019



SECTION A-A
SCALE 4/1

| | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------|--|--------------------------------------|-----------------------------|
| QTY REQD | | PART OR IDENTIFYING NO. | | NOMENCLATURE OR DESCRIPTION | | NO. | |
| LIST OF MATERIALS | | | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .005 ° | | M T Y INSTRUMENTATION LAB CAMBRIDGE, MASS Dwg. No. 00070447 | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 2 | | DRAWN BY <u>P. B. B.</u> DATE <u>5/24/64</u> CHECKED <u>P. B. B.</u> APPROVAL <u>P. B. B.</u> APPROVAL <u>P. B. B.</u> | | BLOCK COMPONENT DIODE FIXED MEMORY MODULE | | | |
| 2003045 | | HEAT TREATMENT | | NASA APPROVAL <u>[Signature]</u> | | CODE ENTRY NO. SIZE 80230 D | NASA DRAWING NO. 2004072 |
| NEXT ASSY USED ON | | FINAL FINISH | | MIT APPROVAL <u>[Signature]</u> | | SCALE 2/1 WT | SHEET OF |
| APPLICATION | | | | | | | |

NOTICE - THIS DRAWING IS A PRELIMINARY DRAWING. IT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.

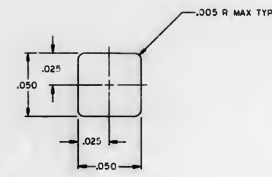


- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL -D-70327
 2. REMOVE BURRS AND SHARP EDGES .005/.015
 3. MATERIAL: PLASTIC SHEET PER MIL P18177 TYPE GEE
 4. ALL SURFACES $\sqrt{25}$
 5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX.
 6. IDENTIFY WITH PART NO. PER NDIO02019

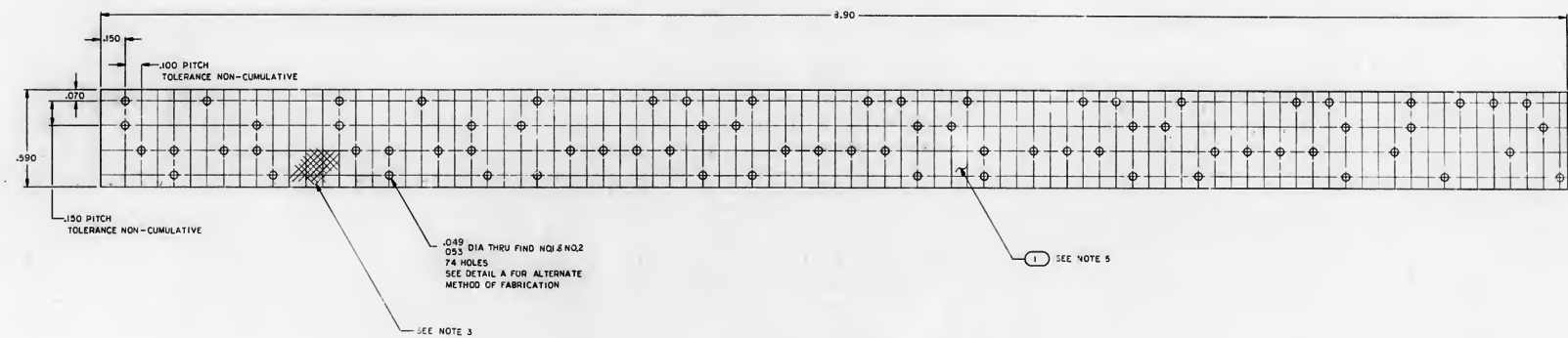
| SYMBOL | | DESCRIPTION | DATE | APPROVAL |
|--------|--|------------------------|--------|----------|
| A | | REVISED PER TDRR 20950 | 1/1/68 | W. H. H. |
| B | | REVISED PER TDRR 22561 | 1/1/68 | W. H. H. |

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------|-------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| M.I.T. INSTRUMENTATION LAB CHEMISTRY, MASS. DRAWN BY: <i>[Signature]</i> DATE: 1/1/68 CHECKED BY: <i>[Signature]</i> DATE: 1/1/68 APPROVAL: <i>[Signature]</i> DATE: 1/1/68 MATERIAL: <i>[Signature]</i> DATE: 1/1/68 | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .005 ± .005 ± .005 | | NASA APPROVAL: <i>[Signature]</i> DATE: 1/1/68 M.I.T. APPROVAL: <i>[Signature]</i> DATE: 1/1/68 | |
| DO NOT SCALE THIS DRAWING | | CODE IDENT NO. 80230 SIZE D SCALE 4/1 WT. OF 1 | |
| MATERIAL | | NOMENCLATURE OR DESCRIPTION BLOCK, RESISTOR-DIODE FIXED MEMORY MODULE | |
| SEE NOTE 3 | | NASA DRAWING NO. 2004073 | |
| HEAT TREATMENT | | APPLICATION | |
| NEXT ASSY USED ON | | APPLICATION | |
| APPLICATION | | APPLICATION | |

NOTE: THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR OFFICIAL GOVERNMENT PURPOSES ONLY. IT IS TO BE KEPT IN THE ORIGINAL FILE AND NOT REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE U.S. GOVERNMENT. THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSES.



DETAIL A
SCALE 30/1

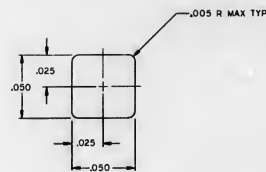


- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL PLASTIC SHEET .008/.009 THK PER MIL-P-15035, TYPE /B1
 3. THREADS IN PLASTIC SHEET TO RUN DIAGONALLY
 4. IDENTIFY WITH PART NO. PER ND100209
 5. ONLY FIND HQ2 TO FAR SIDE OF FIND HQ1
 6. 49 DEVOTES AS REQUIRED

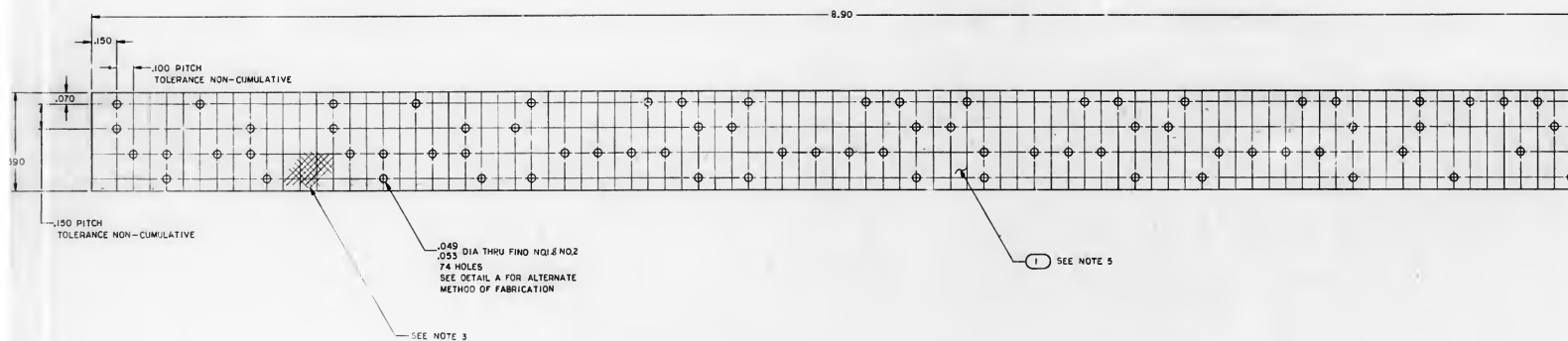
2004077 A

| | | |
|------------------------------|---------|------------|
| UNLESS OTHERWISE SPECIFIED | | PARTIAL |
| DIMENSIONS ARE IN INCHES | | DATE |
| CAPACITOR VALUES ARE IN P.F. | | DESIGN |
| RESISTOR VALUES ARE IN OHMS | | CHECKED |
| TOLERANCES ON | | APPROVED |
| FRACTIONS OF INCHES | | BY |
| DECIMALS OF INCHES | | DATE |
| DO NOT SCALE THIS DRAWING | | |
| WATERMARK | | |
| 2003031 | | SEE NOTE 2 |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| REVISIONS | | | | |
|-----------|------|------------------------|----|------|
| REV | DATE | DESCRIPTION | BY | APP |
| A | | REVISED PER TDAR | CM | DATE |
| B | | REVISED PER TDAR 22465 | CM | DATE |



DETAIL A
SCALE 30/1



ARDS PRESCRIBED BY MIL-0-75227
IL-P-11035, TYPE #B1

| | | |
|--------------------------------------------|---------------------------|-----------------------------|
| AR 058006-27 | INSULATOR | 2 |
| 1 2004077-001 | INSULATOR | 2 |
| QTY | PART OR IDENTIFICATION NO | NOMENCLATURE OR DESCRIPTION |
| QTY | | |
| LIST OF MATERIALS | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| INSULATOR, MATRIX CURRENT SWITCH MODULE | | |
| 2003031 | CODE IDENT NO. 180230 | DATE 10/2/77 |
| APPROVED | BY | DATE |
| APPROVED | BY | DATE |

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN pF RESISTOR VALUES ARE IN OHMS TOLERANCES ON DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN pF RESISTOR VALUES ARE IN OHMS TOLERANCES ON DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN pF RESISTOR VALUES ARE IN OHMS TOLERANCES ON DIMENSIONS ARE | SEE NOTE 2 |
| APPLICATION | USED ON |

2004077 A

4

3

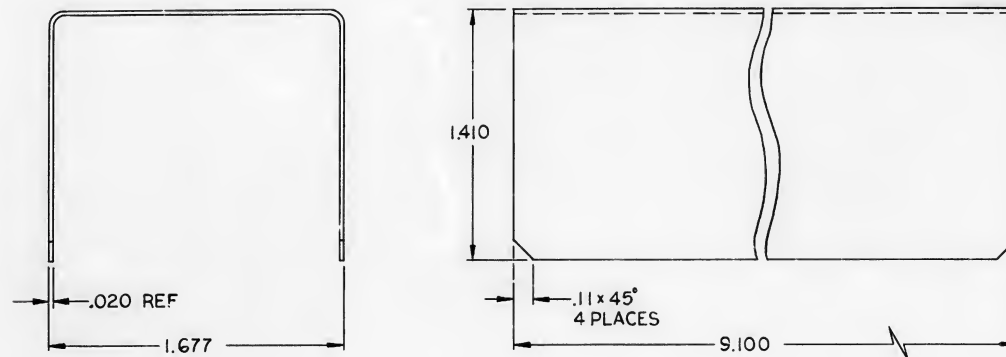
2

1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION IN THE UNITED STATES, THE USER SHALL INDICATE THE SOURCE OF THE DATA AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE RELEASED BY IMPLICATION OR OTHERWISE IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.

REVISIONS 18684

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|-------------|----|-----|------|----------|
| | | | | | | |



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATL: .020 THK 6061-T6 AL PER QQ-A-250/11, TEMPER T6
3. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED
4. ALL INSIDE BEND RADIUS TO BE .07
5. REMOVE BURRS & SHARP EDGES .005/.015
6. ANODIZE PER MIL-A-8625, TYPE II DYED BLACK
7. IDENTIFY WITH DRAWING NUMBER & REVISION PER ND1002019

| | | |
|-------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES $\pm .005$ $\pm .010$ $\pm 2^\circ$ DO NOT SCALE THIS DRAWING |
| | | MATERIAL |
| | | SEE NOTE 2 |
| 2003011 | | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

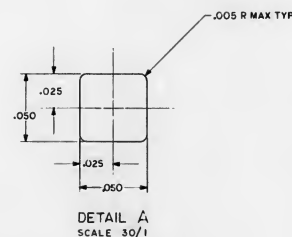
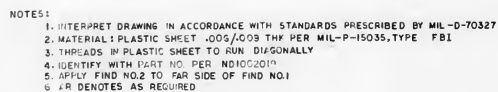
| | | | | |
|---------------------------------------------|-------------------------|--------------------------------------------|------|-------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | | FILE NO. |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN | C.A. Dwyer | 3/11/65 | | |
| CHECKED | H. J. Dwyer | 3/11/65 | | |
| APPROVED | H. J. Dwyer | 3/11/65 | | |
| APPROVED | Edmund Hall | 3/11/65 | | |
| APPROVED MIT | W. C. Dwyer | CODE IDENT NO. | SIZE | DRAWING NO. |
| APPROVED MSC | W. C. Dwyer | 80230 | C | 2004083 |
| DATE | SCALE 2/1 | SHEET 1 OF 1 | | |

4

3

2

1

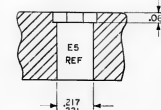
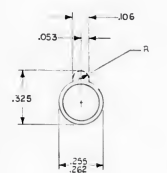


| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------|----------------------------------------------|---|---------|
| | AR | 1006R06-27 | INSULATION TAPE | 1 | |
| | I | 2004087-001 | INSULATOR | | |
| | - | PART OR SUBSTITUTE NO. | HOMECOMPLETION OR DESCRIPTION | | FBI NO. |
| QTY | NO. | | | | |
| | | | LIST OF MATERIALS | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μF RESISTOR VALUES ARE IN OHMS TOLERANCES ON FACTORY PARTS - RESISTORS - ± 5% CAPS - ± 10% UNLESS NOTED OTHERWISE | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN BY <u>WJL</u> CHECKED BY <u>WJL</u> APPROVED BY <u>C.H. MALL</u> DATE <u>12/9/74</u> | | | INSULATOR, MATRIX ROVER DRIVER MODULE | | |
| NOT TO SCALE THE DRAWING MATERIALS: | | | CODE IDENT NO. SERIAL DRAWING NO. | | |
| APPROVED BY <u>WJL</u> DATE <u>12/9/74</u> | | | E 2004087 | | |
| APPLICATION | | | SCALE: 1/1 SHEET 1 OF 1 | | |

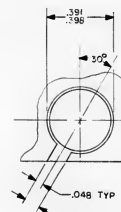
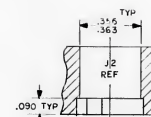
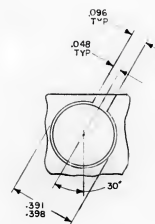
| HOLE IDENT | X DIM. | Y DIM. | HOLE DIA. | QTY. |
|------------|--------|--------|-----------|------|
| A1 | -0.045 | .126 | | |
| A2 | .000 | .000 | | |
| A3 | -.005 | .347 | | |
| A4 | .075 | .448 | | |
| A5 | .357 | .487 | | |
| A6 | -.357 | .595 | | |
| A7 | .357 | .687 | | |
| A8 | -.450 | .700 | | |
| A9 | -.480 | .487 | | |
| A10 | .495 | .253 | | |
| A11 | .371 | .360 | | |
| A12 | .660 | .558 | | |
| A13 | .767 | .371 | | |
| A14 | .775 | .521 | | |
| A15 | .848 | .200 | | |
| A16 | .891 | .325 | | |
| A17 | .897 | .487 | | |
| A18 | .977 | .458 | | |
| A19 | .1254 | .432 | | |
| A20 | .1254 | .595 | | |
| A21 | .1254 | .887 | | |
| A22 | .1350 | .600 | | |
| A23 | .1377 | .487 | | |
| A24 | .1392 | .253 | | |
| A25 | .1517 | .371 | | |
| A26 | .1557 | .458 | | |
| A27 | -.664 | .371 | | |
| A28 | .672 | .522 | | |
| A29 | .745 | .500 | | |
| A30 | .788 | .325 | | |
| A31 | .794 | .200 | | |
| A32 | .859 | .458 | | |
| A33 | -.181 | .432 | | |
| A34 | -.181 | .595 | | |
| A35 | -.181 | .887 | | |
| A36 | .244 | .000 | | |
| A37 | .244 | .487 | | |
| A38 | .249 | .253 | | |
| A39 | .249 | .371 | | |
| A40 | .254 | .458 | | |
| A41 | .251 | .126 | | |
| A42 | .256 | .522 | | |
| A43 | .264 | .600 | | |
| A44 | .265 | .525 | | |
| A45 | .291 | .002 | | |
| A46 | .296 | .458 | | |
| A47 | .3048 | .432 | | |
| A48 | .3048 | .595 | | |
| A49 | .3048 | .887 | | |
| A50 | .3141 | .000 | | |
| A51 | .3171 | .487 | | |
| A52 | .3186 | .371 | | |
| A53 | .3251 | .595 | | |
| A54 | .3351 | .458 | | |
| A55 | .3458 | .371 | | |
| A56 | .3466 | .522 | | |
| A57 | .3537 | .892 | | |
| A58 | .3720 | .010 | | |
| A59 | .3631 | .555 | | |
| A60 | .3836 | .892 | | |
| A61 | .3893 | .371 | | |
| A62 | .3997 | .586 | | |
| A63 | .3961 | .501 | | |
| A64 | .4061 | .361 | | |
| A65 | .4021 | .282 | | |
| A66 | .4041 | .725 | | |
| A67 | .4228 | .737 | | |
| A68 | .4451 | .282 | | |
| A69 | .4451 | .620 | | |
| A70 | .4557 | .458 | | |
| A71 | .4606 | .325 | | |
| A72 | .4612 | .000 | | |
| A73 | .4612 | .458 | | |
| A74 | .4963 | .432 | | |
| A75 | .4969 | .595 | | |
| A76 | .4963 | .371 | | |
| A77 | .5082 | .000 | | |
| A78 | .5082 | .487 | | |
| A79 | .5107 | .253 | | |
| A80 | .5172 | .371 | | |
| A81 | .5272 | .458 | | |
| A82 | .5381 | .371 | | |
| A83 | .5387 | .522 | | |
| A84 | .5460 | .200 | | |
| A85 | .5503 | .325 | | |
| A86 | .5509 | .021 | | |
| A87 | .5584 | .458 | | |
| A88 | .5666 | .371 | | |
| A89 | .5666 | .595 | | |
| A90 | .5666 | .887 | | |
| A91 | .5919 | .500 | | |
| A92 | .5989 | .487 | | |
| A93 | .6004 | .253 | | |
| A94 | .6043 | .371 | | |
| A95 | .6169 | .458 | | |
| A96 | .6276 | .271 | | |
| A97 | .6284 | .522 | | |
| A98 | .6357 | .282 | | |
| A99 | .6400 | .325 | | |
| A100 | .6406 | .000 | | |

| HOLE IDENT | X DIM. | Y DIM. | HOLE DIA | QTY |
|---------------|--------|--------|-------------|-----|
| A101 | 6.481 | .458 | | |
| A102 | 6.763 | .432 | | |
| A103 | 6.763 | .458 | | |
| A104 | 6.763 | .487 | | |
| A105 | 6.876 | .405 | | |
| A106 | 6.886 | .487 | | |
| A107 | 6.901 | .253 | | |
| A108 | 6.982 | .371 | | |
| A109 | 7.066 | .458 | | |
| A110 | 7.173 | .371 | | |
| A111 | 7.181 | .522 | | |
| A112 | 7.254 | .200 | | |
| A113 | 7.297 | .365 | | |
| A114 | 7.303 | .051 | | |
| A115 | 7.378 | .458 | | |
| A116 | 7.660 | .432 | | |
| A117 | 7.660 | .509 | | |
| A118 | 7.660 | .487 | | |
| A119 | 7.753 | .509 | | |
| A120 | 7.783 | .487 | | |
| A121 | 7.798 | .253 | | |
| A122 | 7.863 | .371 | | |
| A123 | 7.963 | .458 | | |
| A124 | 8.070 | .371 | | |
| A125 | 8.078 | .522 | | |
| A126 | 8.168 | .458 | | |
| A127 | 8.232 | .740 | | |
| A128 | 8.552 | .458 | | |
| A129 | 8.640 | .487 | | |
| A130 | 8.701 | .582 | | |
| A131 | 8.777 | .740 | | |
| A132 | 8.810 | .458 | | |
| A133 | 8.850 | .113 | | |
| A134 | 8.850 | .000 | | |
| | | | | |
| B1 | 3.610 | .107 | .153 | 4 |
| B2 | 4.118 | .867 | .157 | |
| B3 | 4.312 | .867 | | |
| B4 | 8.330 | .867 | | |
| | | | | |
| C1 | 3.757 | .167 | | |
| C2 | 3.836 | .252 | | |
| C3 | 3.901 | .167 | | |
| C4 | 4.240 | .252 | | |
| C5 | 4.352 | .367 | | |
| C6 | 4.352 | .550 | | |
| C7 | 4.451 | .481 | | |
| C8 | 4.451 | .760 | | |
| C9 | 8.255 | .262 | | |
| C10 | 8.216 | .376 | | |
| C11 | 8.405 | .522 | | |
| C12 | 8.532 | .262 | | |
| C13 | 8.842 | .350 | | |
| | | | | |
| D1 | 3.897 | .720 | .108 | 2 |
| D2 | 4.480 | .892 | .112 | |
| E1 | .560 | .112 | | |
| E2 | 1.857 | .112 | | |
| E3 | 2.454 | .112 | | |
| E4 | 3.551 | .112 | | |
| E5 | 3.685 | .240 | | |
| E6 | 3.685 | .402 | | |
| E7 | 4.032 | .066 | | |
| E8 | 4.162 | .442 | | |
| E9 | 4.342 | .066 | | |
| E10 | 5.172 | .112 | | |
| E11 | 5.619 | .112 | | |
| E12 | 7.066 | .112 | | |
| E13 | 7.963 | .112 | | |
| E14 | 8.340 | .166 | | |
| E15 | 8.283 | .458 | | |
| E16 | 8.570 | .077 | | |
| E17 | 8.647 | .740 | | |
| E18 | 8.762 | .320 | | |
| | | | | |
| F1 | .225 | .180 | | |
| F2 | 1.122 | | | |
| F3 | 2.019 | | | |
| F4 | 2.817 | | | |
| F5 | 4.834 | | | |
| F6 | 6.734 | | | |
| F7 | 6.631 | | | |
| F8 | 7.528 | .180 | | |
| | | | | |
| G1 | .115 | .740 | | |
| G2 | .125 | | | |
| G3 | .900 | | | |
| G4 | 1.204 | | | |
| G5 | 1.627 | | | |
| G6 | 5.624 | | | |
| G7 | 6.521 | | | |
| G8 | 7.418 | .740 | | |

| HOLE IDENT | X DIM. | Y DIM. | HOLE DIA | QTY |
|---------------|--------|--------|-------------|-----|
| H1 | -017 | .512 | | |
| H2 | 2.57 | .507 | | |
| H3 | .430 | .347 | | |
| H4 | .737 | -.022 | | |
| H5 | .866 | .437 | | |
| H6 | 1.134 | .507 | | |
| H7 | 1.382 | .347 | | |
| H8 | 1.634 | -.022 | | |
| H9 | 1.763 | .437 | | |
| H10 | 2.031 | .507 | | |
| H11 | 2.224 | .347 | | |
| H12 | 2.591 | -.022 | | |
| H13 | 3.460 | .437 | | |
| H14 | 2.928 | .507 | | |
| H15 | 3.161 | .347 | | |
| H16 | 3.537 | -.022 | | |
| H17 | 3.555 | .603 | | |
| H18 | 3.572 | .285 | | |
| H19 | 3.992 | .607 | | |
| H20 | 4.280 | .343 | | |
| H21 | 4.607 | .285 | | |
| H22 | 4.557 | .437 | | |
| H23 | 4.849 | .507 | | |
| H24 | 5.048 | .347 | | |
| H25 | 5.409 | -.022 | | |
| H26 | 5.478 | .437 | | |
| H27 | 5.746 | .507 | | |
| H28 | 5.933 | .347 | | |
| H29 | 6.306 | -.022 | | |
| H30 | 6.375 | .437 | | |
| H31 | 6.643 | .507 | | |
| H32 | 6.836 | .347 | | |
| H33 | 7.203 | -.022 | | |
| H34 | 7.272 | .437 | | |
| H35 | 7.540 | .507 | | |
| H36 | 7.733 | .347 | | |
| H37 | 8.100 | -.022 | | |
| H38 | 8.416 | .437 | | |
| H39 | 8.476 | .507 | | |
| H40 | 8.583 | .603 | | |
| | | | | |
| J1 | .600 | .740 | | |
| J2 | 1.497 | .734 | | |
| J3 | 2.384 | .734 | | |
| J4 | 3.291 | .734 | | |
| J5 | 4.212 | .734 | | |
| J6 | 5.096 | .734 | | |
| J7 | 7.006 | .740 | | |
| J8 | 7.003 | .740 | | |
| | | | | |
| J1 | .600 | .740 | | |
| J2 | 1.497 | .734 | | |
| J3 | 2.384 | .734 | | |
| J4 | 3.291 | .734 | | |
| J5 | 4.212 | .734 | | |
| J6 | 5.096 | .734 | | |
| J7 | 7.006 | .740 | | |
| J8 | 7.003 | .740 | | |



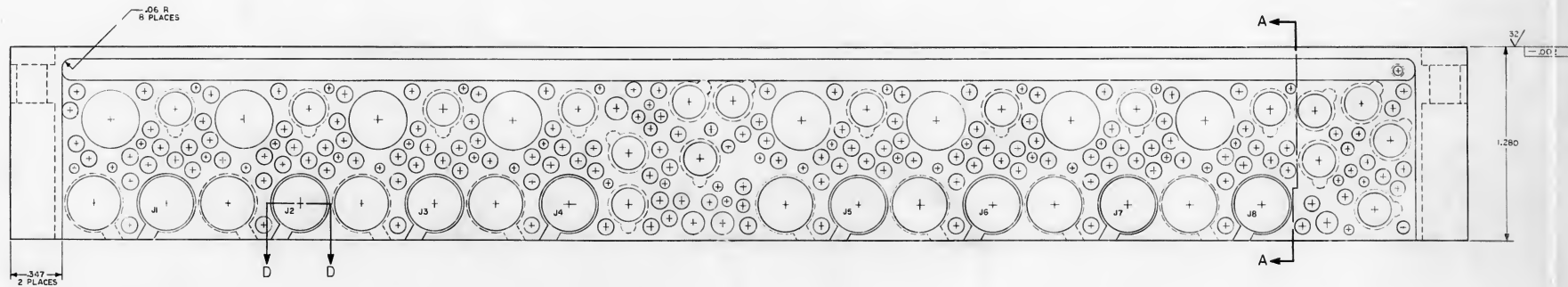
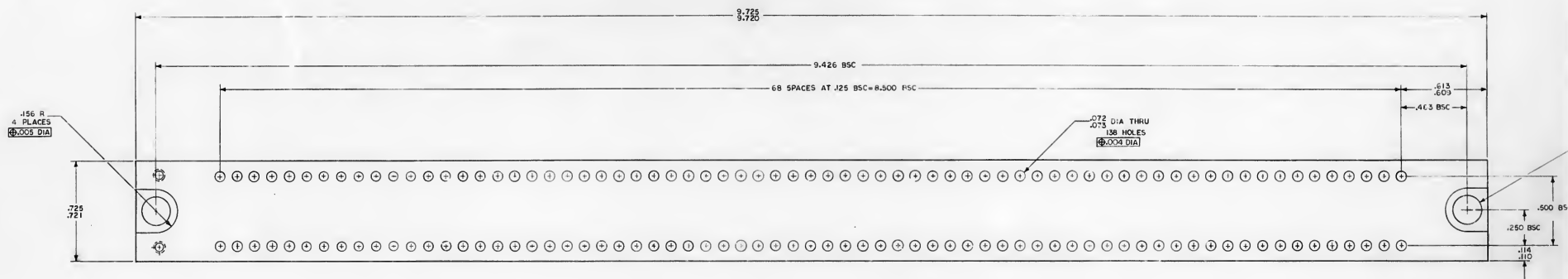
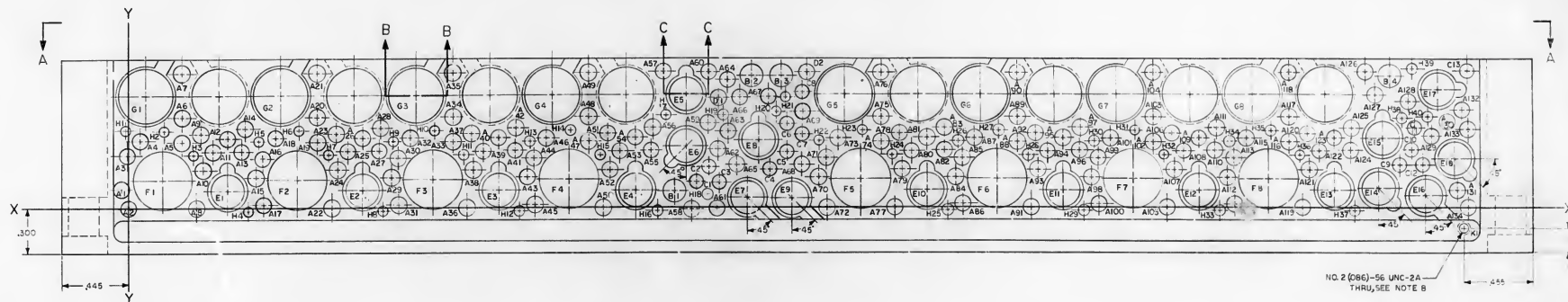
SECTION C-C

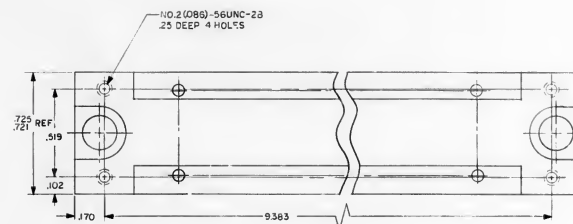
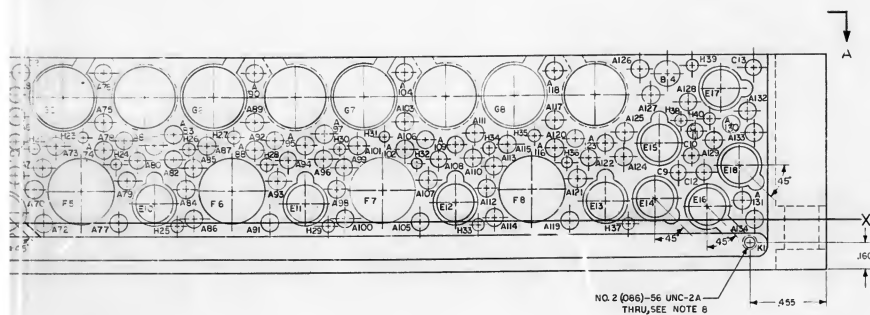


SECTION B-B

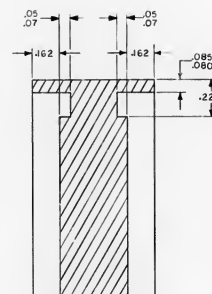
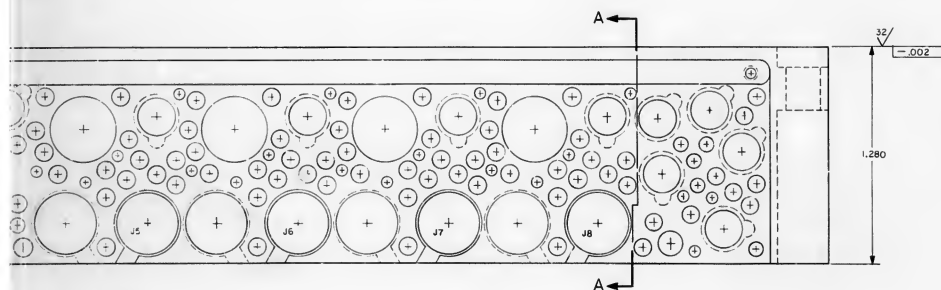
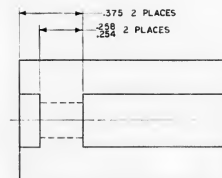
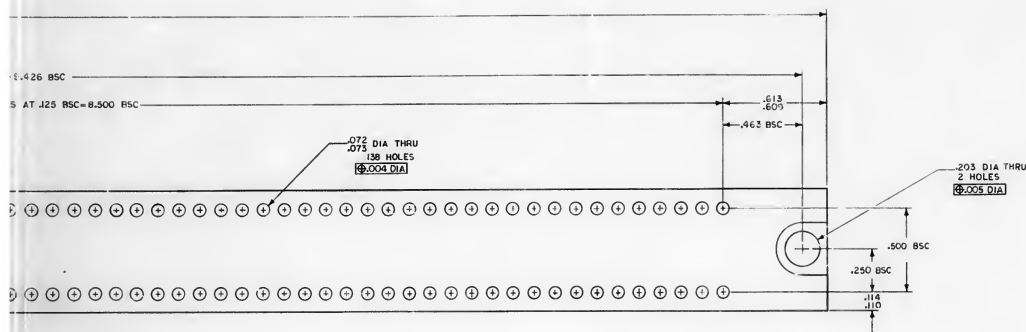
SECTION D-D

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP 5
 3. UNLESS OTHERWISE SPECIFIED ALL FILETS AND RADII .020 MAX.
 4. ALL SURFACES ~~100~~ UNLESS OTHERWISE SPECIFIED
 5. IDENTIFY WITH DRAWING NO. AND REVISION PER ND 1002019
 6. REMOVE BURRS AND SHARP EDGES .005/.015
 7. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
 8. TAP HOLE (K1) AFTER ANODIZE COAT PER ND1002040





VIEW A-A

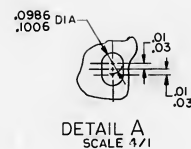
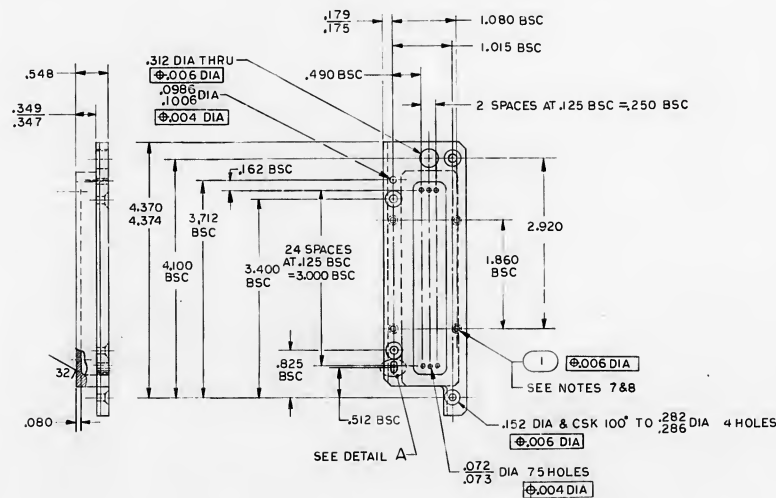
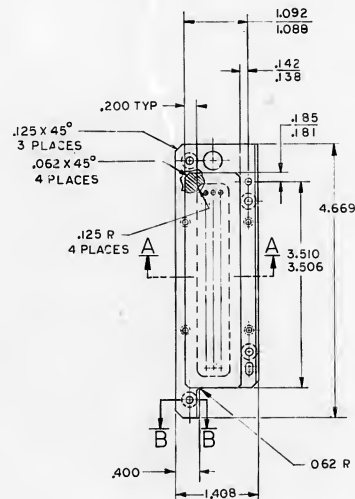


SECTION A-A

| | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------|
| QTY NO | | PART OR IDENTIFYING NO. | NOMENCLATURE OR DES'GATION | A |
| LIST OF MATERIALS | | | | |
| | | M I T INSTRUMENTATION LAB | MANPED SPACECRAFT CENTER HOUSTON, TEXAS | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CORNER VALUES ARE IN ° RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS, DECIMALS AND ANGLES ARE AS SHOWN. DO NOT REPLY THIS DRAWING TEXTURE | | <i>Handwritten:</i> APPROVED [Signature] 7/20/62 CHECKED [Signature] 8/29/62 DESIGNED [Signature] 8/29/62 APP'D [Signature] 8/29/62 DRAWN [Signature] 8/29/62 | HEADER HOUSING SENSE AMPLIFIER MODULE | |
| 2003043 | SEE NOTE 2 | APPROVED M I T M I T <i>Handwritten:</i> APPROVED [Signature] 7/20/62 | CODER CODE NO. SUB 80230 J | DRAWING NO. 2004094 |
| NEXT ASSY | USED ON | APPLIED PINC | SCALE 4:1 | SHEET 1 |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFENSE OR NATIONAL AERONAUTICS PROGRAM, THE UNITED STATES GOVERNMENT TAKES NEITHER ANY RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR RECOMMENDED SUCH DATA DOES NOT CONSTITUTE AN ENDORSEMENT OR A WARRANTY, NOR IS IT TO BE REPRODUCED BY IMPLICATION OR OTHERWISE AS AN ENDORSEMENT. LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY INFORMATION CONTAINED HEREIN.

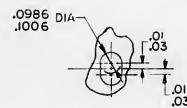
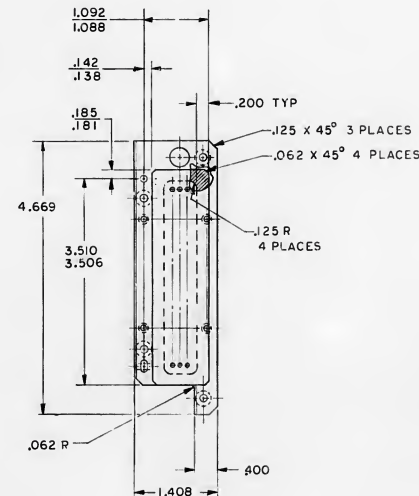
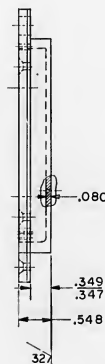
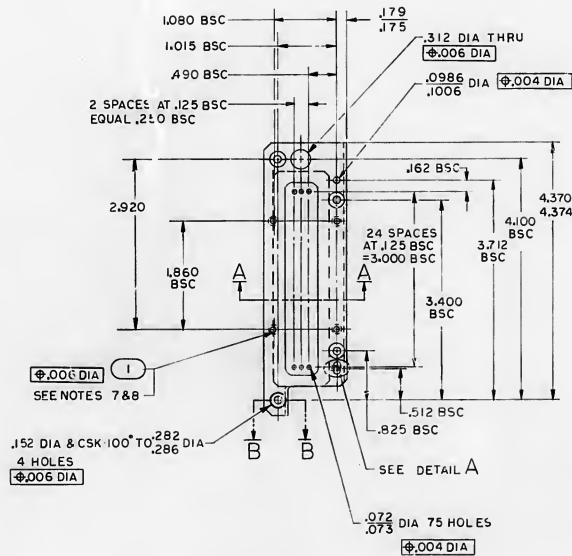
| | | | |
|-----------------|------|-------------|----------------------|
| 2 | | 1 | |
| REVISIONS 20043 | | | |
| SYM | ZONE | DESCRIPTION | DR CHK DATE APPROVED |
| | | | |



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. REMOVE BURRS AND SHARP EDGES .005/.015
3. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED
4. MATL: 6061-T6 AL PER QQ-A-250/11, TEMP 6
5. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
6. UNLESS OTHERWISE SPECIFIED ALL FILLETS & RADII TO BE .010 MAX
7. INSTALL FIND NO.1 PER MS 33646
8. COAT THREADS OF FIND NO.1 WITH MIL-P-5858, COLOR YELLOW
9. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

| | | | | |
|------------------------------------------------------|-------------------------|--------------------------------------------|-------------|--------|
| 4 | MS 21209-C0415 | INSERT, THREADED | | I |
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | | FIN NO |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>J. A. D'Amico</i> <i>10/22/63</i> | | CONNECTOR B 41 | | |
| CHECKED <i>W. J. D'Amico</i> <i>10/22/63</i> | | FIXED MEMORY | | |
| APPROVED <i>W. J. D'Amico</i> <i>10/22/63</i> | | | | |
| APPROVED <i>W. J. D'Amico</i> <i>10/22/63</i> | | | | |
| APPROVED MIT <i>W. J. D'Amico</i> <i>10/22/63</i> | CODE IDENT NO. | SIDE | DRAWING NO. | |
| | 80230 | D | 2004101 | |
| APPROVED HSC <i>W. J. D'Amico</i> <i>10/22/63</i> | SCALE 1/1 | SHEET 1 OF 1 | | |

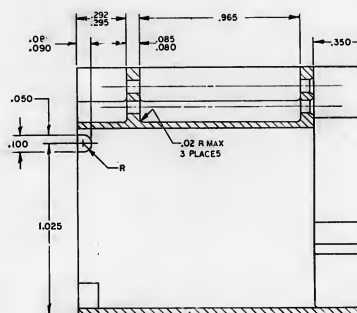


DETAIL A
SCALE 4/1

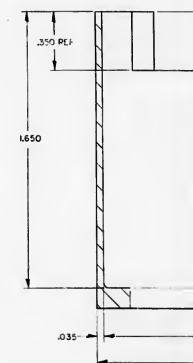
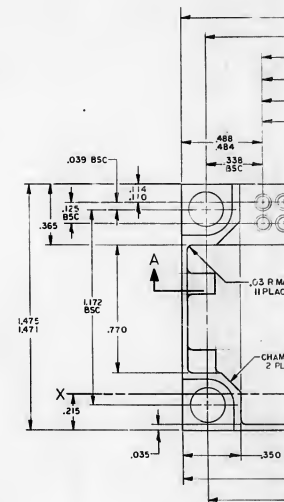
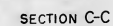
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. REMOVE BURRS AND SHA/P EDGES .005/.015
 3. ALL FEATURES 125/ UNLESS OTHERWISE SPECIFIED
 4. MATL: 6061-T6 AL PER QQ-C-250 H1 TEMP C
 5. CHROMATE PER MIL-C-5541, TYPE II, GRADE C CLASS 3
 6. UNLESS OTHERWISE SPECIFIED ALL FILLETS & RADII TO BE .010 MAX
 7. INSTALL FIND NO.1 PER MS 33646
 8. COAT THREADS OF FIND NO.1 WITH MIL-P-8585, COLOR YELLOW
 9. IDENTIFY WITH DRAWING NO. AND REVISION PER QQ1002019

| | | | | |
|-----------------------------------------------------|-------------------------|--------------------------------------------|-------|--------------|
| 4 | MS 21209-C0415 | INSERT, THREADED | | |
| QTY | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | | FIN |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN BY <u>G. G. G. G.</u> DATE <u>10/20/66</u> | | CONNECTOR B42 FIXED MEMORY | | |
| CHECKED BY <u>G. G. G. G.</u> DATE <u>10/20/66</u> | | | | |
| APPROVED BY <u>G. G. G. G.</u> DATE <u>10/20/66</u> | | | | |
| REVISED BY <u>G. G. G. G.</u> DATE <u>10/20/66</u> | | | | |
| APPROVED BY <u>G. G. G. G.</u> | MIT | CODE IDENT NO | SIZE | DRAWING NO. |
| APPROVED BY <u>G. G. G. G.</u> | MIT | 80420 | D | 2004102 |
| REVISED BY <u>G. G. G. G.</u> | | SCALE | 1 / 1 | SHEET 1 OF 1 |

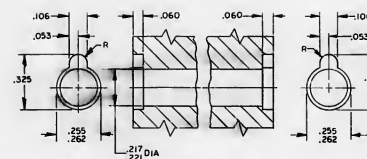
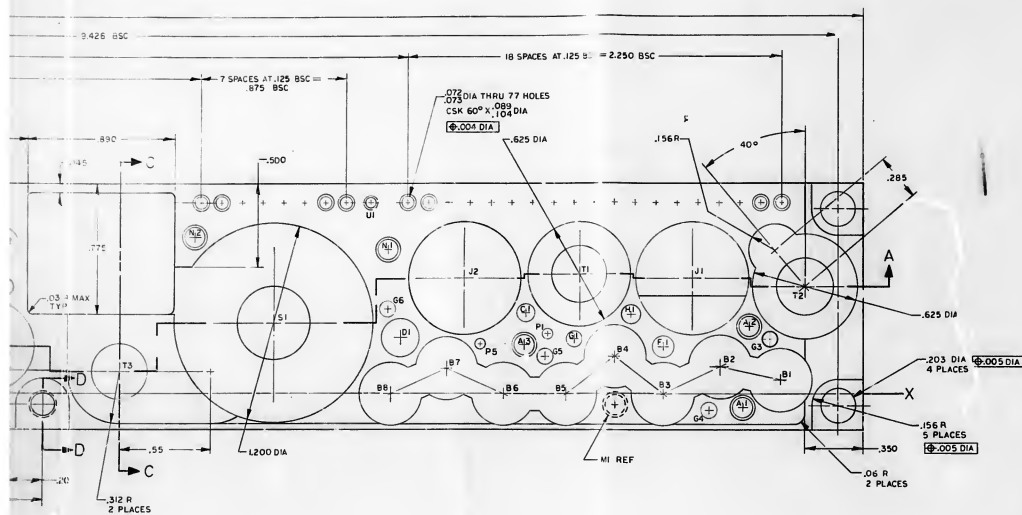
10



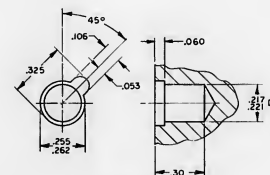
SECTION B-B



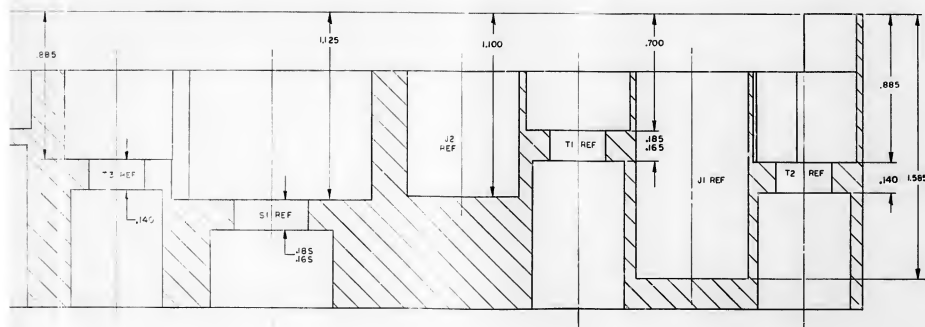
| REVISIONS | | REV | DATE | APPROVED |
|-----------|------------------------|-----|----------|----------|
| A | REVISED PER TORR 21951 | AW | 2/21/84 | |
| B | REVISED PER TORR 72564 | AW | 12/26/84 | |



DETAIL A



DETAIL B

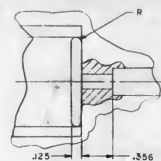
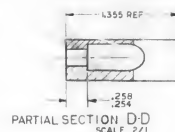
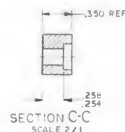


SECTION A-A

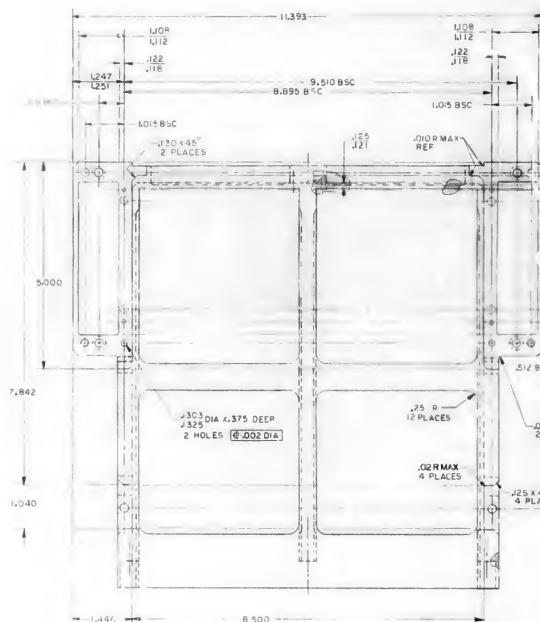
2004105 B

| | | | |
|------|-------------------------|-----------------------------|----------|
| REV | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIG. NO. |
| A101 | | | |

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------|---------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSION VALUES ARE IN P.F. TOLERANCES ON FRACTIONS DECIMALS ANGLES ° - .0001" .001" .01" .05" .1" .5" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" 13" 14" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25" 26" 27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48" 49" 50" 51" 52" 53" 54" 55" 56" 57" 58" 59" 60" 61" 62" 63" 64" 65" 66" 67" 68" 69" 70" 71" 72" 73" 74" 75" 76" 77" 78" 79" 80" 81" 82" 83" 84" 85" 86" 87" 88" 89" 90" 91" 92" 93" 94" 95" 96" 97" 98" 99" 100" | | LIST OF MATERIALS | |
| INSTRUMENTATION LAB HARRISBURG, PA | | HARRISBURG SPACECRAFT CENTER HARRISBURG, PA | |
| DRAWN: <i>C. J. Smith</i> CHECKED: <i>C. J. Smith</i> APPROVED: <i>C. J. Smith</i> DATE: <i>2/21/84</i> | | HEADER HOUSING POWER SUPPLY | |
| 2003057 | | CODE IDENT NO. 80230 J | DRAWING NO. 2004105 |
| REVISION | USED ON | SHEET 1 OF 1 | |

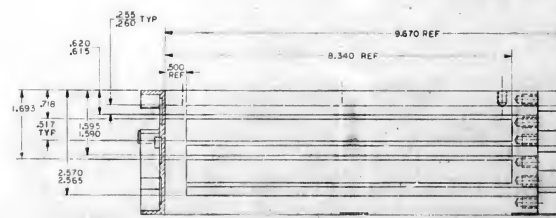


PARTIAL SECTION E-E

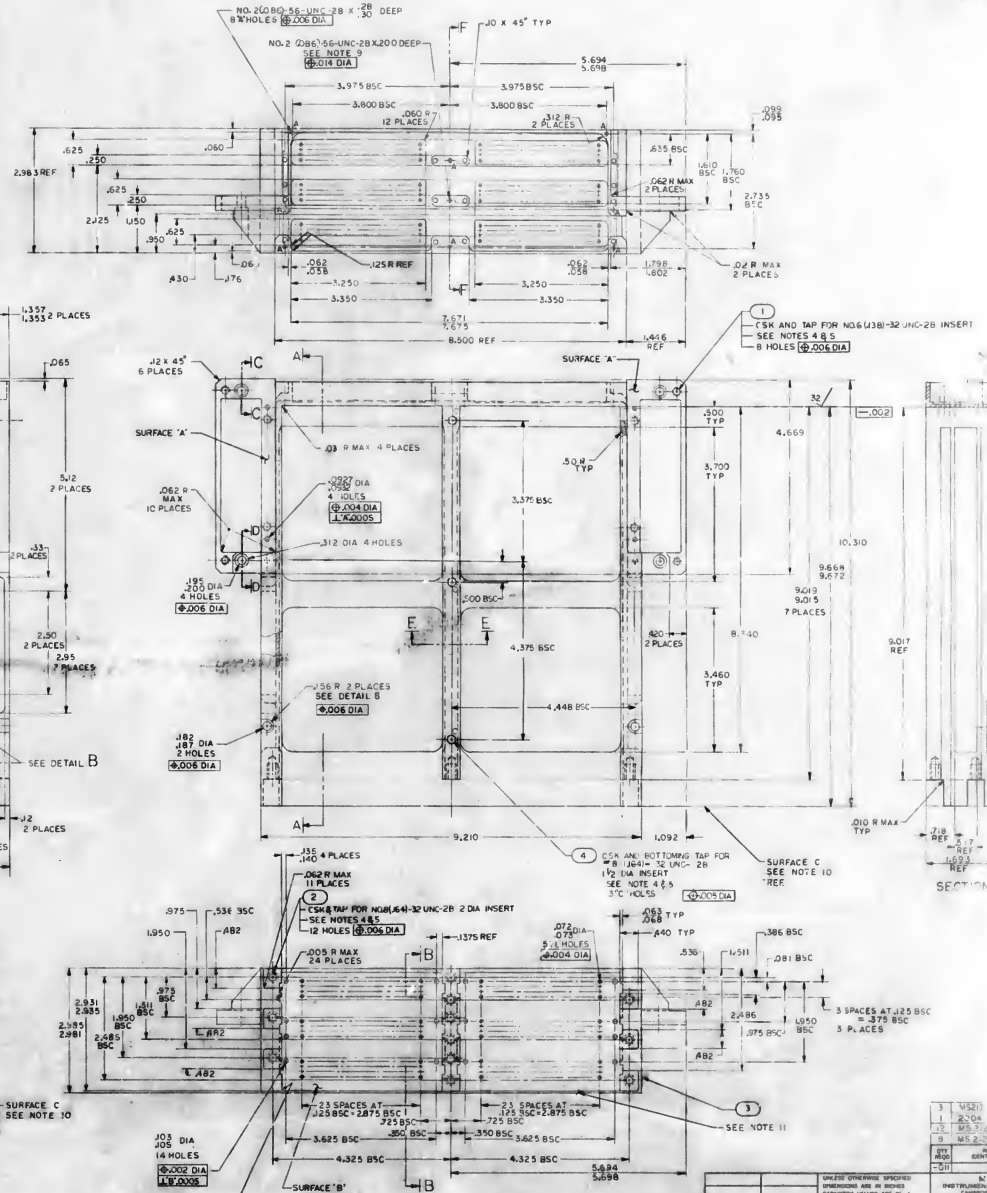


SECTION B-B

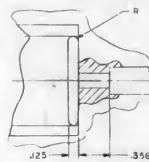
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-STD-20327
 2. REMOVE BURRS AND SHARP EDGES .005/.015
 3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADI TO BE .250 R
 4. INSTALL FINE NUMBER 12 AND 4 PER M23646
 5. COAT THREADS OF PNC NO. 1, 2 AND 4 WITH ML-14850 TYPE I COLOR YELLOW
 6. ALL SURFACES 125 UNLESS OTHERWISE SPECIFIED
 7. MATERIAL ALUMINUM ALLOY 6061-T6 PER QQ-A-250/19 TEMP 6
 8. INSIDE TIE RING MIL-C-5341 TYPE 2, GRADE C CLASS 3
 9. TAKE FILE AFTER CHROMATE FINISH
 10. APPLY FOLLOWING FINISHES TO SURFACE C, MASK ALL HOLES AND INSERTS
 11. A. PAINT GRAY PER NC1002279 USING 1008B09-1
 12. B. FINAL COAT SURFACES PER NC1002277 USING 1012543-D03
 13. DO NOT APPLY PAINT F INSH PER NOTE 10 TO .050 THK EDGE BETWEEN OUTER WALLS



SECTION C-C



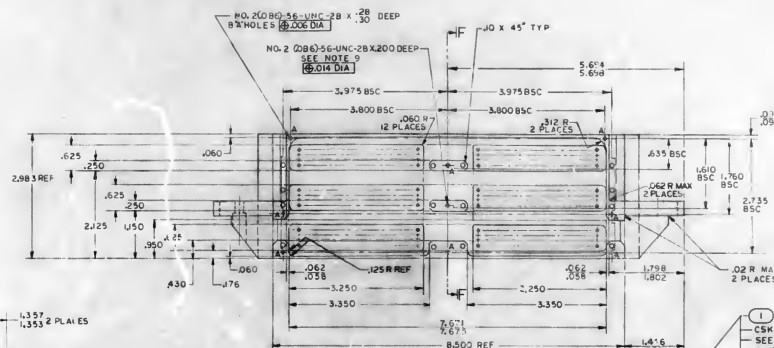
| REVISION | DATE | BY | CHKD | APP'D | DESCRIPTION |
|----------|----------|----------|----------|----------|-------------|
| 1 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 2 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 3 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 4 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 5 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 6 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 7 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 8 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 9 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 10 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 11 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 12 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 13 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 14 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 15 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 16 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 17 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 18 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 19 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |
| 20 | 10/20/04 | J. J. J. | J. J. J. | J. J. J. | INITIALS |



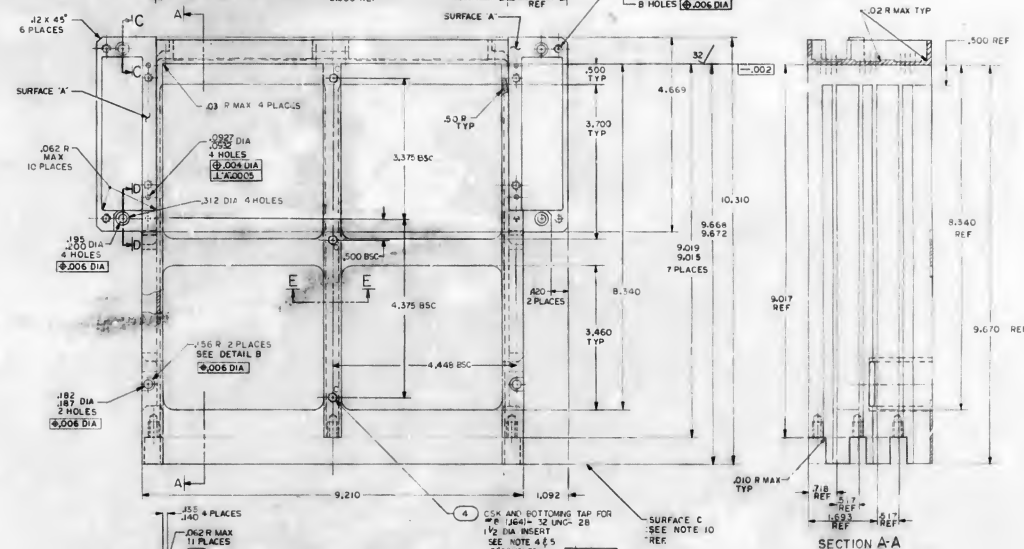
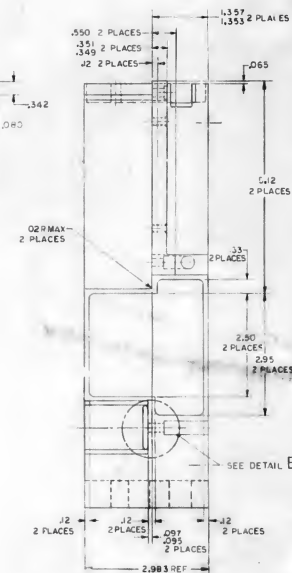
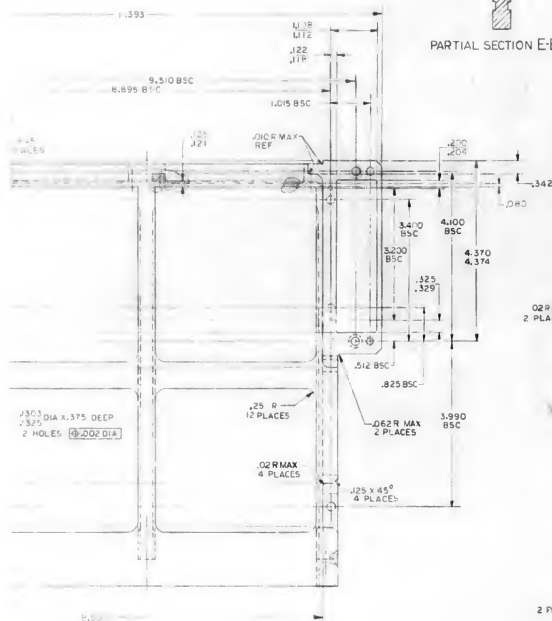
DETAIL
SCALE 2/1
2 PLACES



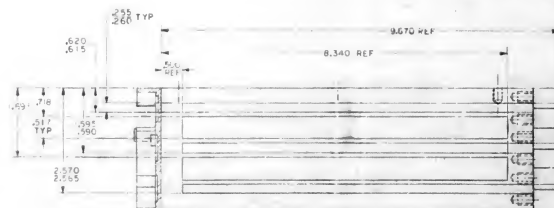
PARTIAL SECTION E-E



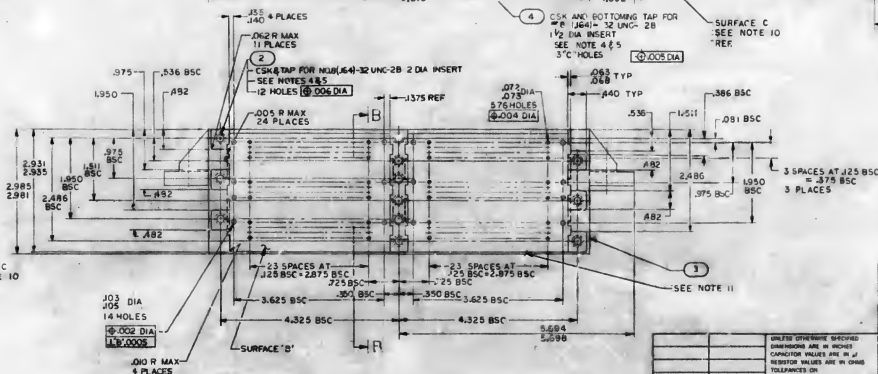
CSK AND TAP FOR NO.6 (138)-32 UNC-2B INSERT
SEE NOTES 4 & 5
B HOLES $\varnothing .006$ DIA



SECTION A-A



SECTION B-B



SEE NOTE 1

| REVISIONS | | | | | |
|-----------|------|------------------------|----|-----|-------------|
| BY | DATE | DESCRIPTION | DR | CHR | APP/REVISED |
| A | | REVISED PER TORR 20617 | 13 | | W |
| B | | REVISED PER TORR 21340 | 13 | | W |
| C | | REVISED PER TORR 22554 | 13 | | W |
| D | | REVISED PER TORR 28025 | 13 | | W |

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-------------|
| 3 | M52020-0015 | INSTR. TAIL, SELF-LOCKING | |
| 4 | 1 2004135-001 | PLASTER | |
| 5 | M5 21209-0082 Q | INSERT TREADS | |
| 6 | M5 21209-00620 | INSERT TREADS | |
| 7 | IDENTIFYING NO. | DATE RECEIVED OR REWORKED | FILE NO. |
| 8 | QTY | UNIT OF MATERIAL | |
| MIT INSTRUMENTATION LAB KENSINGTON, MARY | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN BY <i>W. J. [Signature]</i> DATE <i>2/2/68</i> CHECKED BY <i>W. J. [Signature]</i> DATE <i>2/2/68</i> DESIGNED BY <i>W. J. [Signature]</i> DATE <i>2/2/68</i> IN CHARGE <i>W. J. [Signature]</i> DATE <i>2/2/68</i> | | INTERCONNECTION HEAD FIXED MEMORY | |
| APPROVED BY | DATE DRAFT NO. | SIZE | DRAWING NO. |
| <i>W. J. [Signature]</i> | 80230 | | 2004135 |
| APPROVED BY | DATE | INSET | 1 of 1 |
| <i>W. J. [Signature]</i> | 80230 1/1 | | |

| HOLE IDENT | X DIM. | Y DIM. | HOLE DIA | QTY |
|------------|--------|--------|----------|-----|
| A1 | 2.005 | .710 | | |
| A2 | 1.135 | .100 | | |
| A3 | .865 | -.035 | | |
| A4 | .165 | -.050 | | |
| A5 | 1.135 | -.035 | | |
| A6 | .720 | .335 | | |
| A7 | .320 | -.035 | | |
| A8 | -.115 | .805 | | |
| A9 | .445 | .805 | | |
| A10 | .445 | .840 | | |
| A11 | -.115 | .840 | | |
| A12 | .580 | .805 | | |
| A13 | 1.135 | .805 | | |
| A14 | 1.135 | .840 | | |
| A15 | .580 | .840 | | |
| A16 | 1.275 | .805 | | |
| A17 | 1.275 | .865 | | |
| A18 | -.115 | .870 | | |
| A19 | .445 | .865 | | |
| A20 | .180 | .865 | | |
| A21 | 1.135 | .865 | | |
| A22 | 1.275 | .865 | | |
| A23 | .020 | .865 | | |
| A24 | .285 | .500 | | |
| A25 | 1.000 | .415 | | |
| A26 | .445 | .505 | | |
| A27 | 1.275 | .375 | | |
| A28 | 1.275 | .645 | | |
| A29 | .445 | .645 | | |
| A30 | .445 | .820 | | |
| A31 | 1.275 | .510 | | |
| A32 | .865 | .375 | | |
| A33 | 1.000 | .375 | | |
| A34 | -.115 | .505 | | |
| A35 | .580 | .370 | | |
| A36 | 1.135 | .375 | | |
| A37 | 1.275 | .240 | | |
| A38 | 1.630 | -.035 | | |
| A39 | 2.520 | .350 | | |
| A40 | 2.260 | .350 | | |
| A41 | 2.105 | .870 | | |
| A42 | 2.215 | .790 | | |
| A43 | 2.410 | .885 | | |
| A44 | 2.680 | .885 | | |
| A45 | 2.415 | .940 | | |
| A46 | 2.550 | .940 | | |
| A47 | 2.750 | .940 | | |
| A48 | 2.885 | .940 | | |
| A49 | 3.150 | .965 | | |
| A50 | 3.015 | .965 | | |
| A51 | 3.060 | .490 | | |
| A52 | 3.060 | .350 | | |
| A53 | 3.290 | .485 | | |
| A54 | 3.230 | .355 | | |
| A55 | 3.480 | .945 | | |
| A56 | 3.410 | .830 | | |
| A57 | 3.410 | .635 | | |
| A58 | 3.545 | .830 | | |
| A59 | 3.710 | .560 | | |
| A60 | 3.545 | .595 | | |
| A61 | 3.545 | .560 | | |
| A62 | 3.675 | .695 | | |
| A63 | 3.810 | .565 | | |
| A64 | 3.810 | .695 | | |
| A65 | 3.540 | .085 | | |
| A66 | 3.955 | -.035 | | |
| A67 | 3.955 | .295 | | |
| A68 | 4.220 | .000 | | |
| A69 | 4.085 | .000 | | |
| A70 | 4.455 | .000 | | |
| A71 | 4.045 | .500 | | |
| A72 | 4.165 | .560 | | |
| A73 | 4.300 | .560 | | |
| A74 | 4.435 | .560 | | |
| A75 | 4.415 | .450 | | |
| A76 | 4.570 | .325 | | |
| A77 | 4.095 | .965 | | |
| A78 | 4.610 | .965 | | |
| A79 | 4.510 | .805 | | |
| A80 | 4.625 | .730 | | |
| A81 | 5.070 | .115 | | |
| A82 | 5.070 | -.035 | | |
| A83 | 4.645 | -.035 | | |
| A84 | 4.790 | .375 | | |
| A85 | 5.070 | .240 | | |
| A86 | 5.175 | .335 | | |
| A87 | 5.315 | .025 | | |
| A88 | 4.930 | .215 | | |
| A89 | 4.775 | .725 | | |
| A90 | 5.025 | .965 | | |
| A91 | 4.715 | .860 | | |
| A92 | 4.865 | .965 | | |
| A93 | 5.270 | .840 | | |
| A94 | 5.10 | .840 | | |
| A95 | 4.980 | .835 | | |
| A96 | 5.405 | .835 | | |
| A97 | 5.605 | .910 | | |
| | | | | |
| B1 | -.075 | .335 | | |
| B2 | 1.490 | .000 | | |
| B3 | 2.220 | .170 | | |
| B4 | 1.870 | .320 | | |

100
104

97

181
185

4

| HOLE IDENT | X DIM. | Y DIM. | HOLE DIA | QTY |
|------------|--------|--------|----------|-----|
| B5 | .000 | .000 | | |
| B6 | .175 | .565 | | |
| B7 | .690 | .505 | | |
| B8 | 1.030 | .565 | | |
| B9 | 1.430 | .425 | | |
| B10 | 1.860 | .320 | | |
| B11 | 1.215 | .120 | | |
| | | | | |
| C1 | .580 | .840 | | |
| C2 | 2.010 | .870 | | |
| C3 | 2.245 | .885 | | |
| C4 | 4.235 | .980 | | |
| C5 | .865 | .240 | | |
| C6 | 1.000 | .240 | | |
| C7 | 4.625 | .435 | | |
| C8 | 4.570 | .195 | | |
| | | | | |
| D1 | .165 | .260 | | |
| D2 | .375 | .040 | | |
| D3 | .665 | .040 | | |
| D4 | 1.470 | .155 | | |
| D5 | 2.170 | .280 | | |
| D6 | 2.540 | .715 | | |
| D7 | 2.830 | .715 | | |
| D8 | 3.115 | .695 | | |
| D9 | 3.460 | .350 | | |
| D10 | 3.750 | .350 | | |
| D11 | 3.720 | .060 | | |
| D12 | 4.020 | .710 | | |
| D13 | 5.370 | .560 | | |
| D14 | 4.800 | .770 | | |
| D15 | 4.845 | .040 | | |
| D16 | 5.370 | .235 | | |
| | | | | |
| E1 | 1.845 | .710 | | |
| E2 | 2.260 | .940 | | |
| E3 | 3.990 | .130 | | |
| E4 | 4.950 | .955 | | |
| | | | | |
| F1 | 2.835 | .385 | | |
| F2 | 3.710 | .913 | | |
| | | | | |
| G1 | 2.390 | .350 | | |
| G2 | 3.350 | .845 | | |
| | | | | |
| H1 | -.100 | .180 | | |
| H2 | 1.900 | .875 | | |
| | | | | |
| J1 | 1.000 | -.035 | | |
| J2 | .865 | .100 | | |
| J3 | 1.000 | .100 | | |
| J4 | 1.515 | -.040 | | |
| J5 | 4.510 | .670 | | |
| J6 | 4.645 | .095 | | |
| J7 | 4.790 | .245 | | |
| | | | | |
| K1 | .000 | .605 | | |
| K2 | .165 | .450 | | |
| K3 | .335 | .605 | | |
| K4 | .720 | .220 | | |
| K5 | .865 | .485 | | |
| K6 | 1.275 | .100 | | |
| K7 | 1.445 | .565 | | |
| K8 | 1.555 | .460 | | |
| K9 | 2.005 | .390 | | |
| K10 | 2.105 | .760 | | |
| K11 | 2.185 | .270 | | |
| K12 | 2.325 | .815 | | |
| K13 | 2.935 | .535 | | |
| K14 | 3.175 | .490 | | |
| K15 | 3.300 | .810 | | |
| K16 | 3.660 | .560 | | |
| K17 | 3.670 | .295 | | |
| K18 | 4.045 | .385 | | |
| K19 | 4.340 | .000 | | |
| K20 | 4.675 | .575 | | |
| K21 | 4.705 | .500 | | |
| K22 | 4.875 | .785 | | |
| K23 | 5.270 | .970 | | |
| K24 | 5.445 | .100 | | |
| K25 | 5.440 | -.055 | | |
| K26 | 4.745 | .605 | | |
| | | | | |
| L1 | .165 | .805 | | |
| L2 | .865 | .805 | | |
| L3 | 1.555 | .805 | | |
| | | | | |
| M1 | 4.290 | .275 | | |
| M2 | 5.005 | .560 | | |

SECTION B-B
DETAIL C

2

DETAIL B

6

DETAIL C

4

DETAIL B

1

DETAIL C

1

DETAIL B

4

DETAIL C

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DETAIL B

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DETAIL C

2

DETAIL B

7

DETAIL C

26

DETAIL B

2

DETAIL C

1

DETAIL B

2

DETAIL C

2

DETAIL B

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DETAIL C

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DETAIL B

2

DETAIL C

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DETAIL B

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DETAIL C

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DETAIL B

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DETAIL C

2

DETAIL B

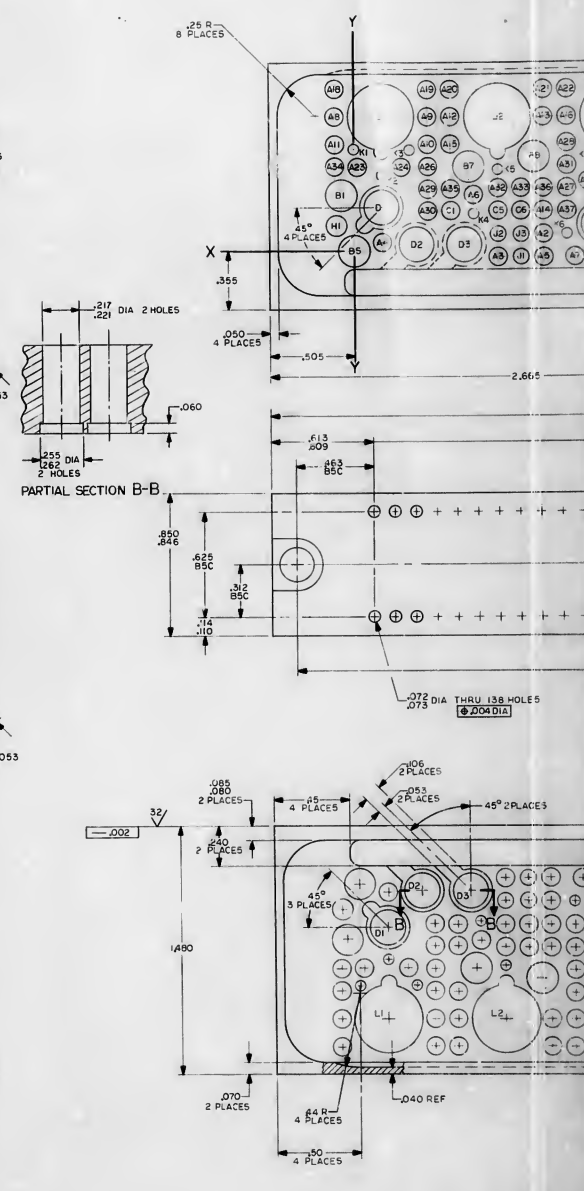
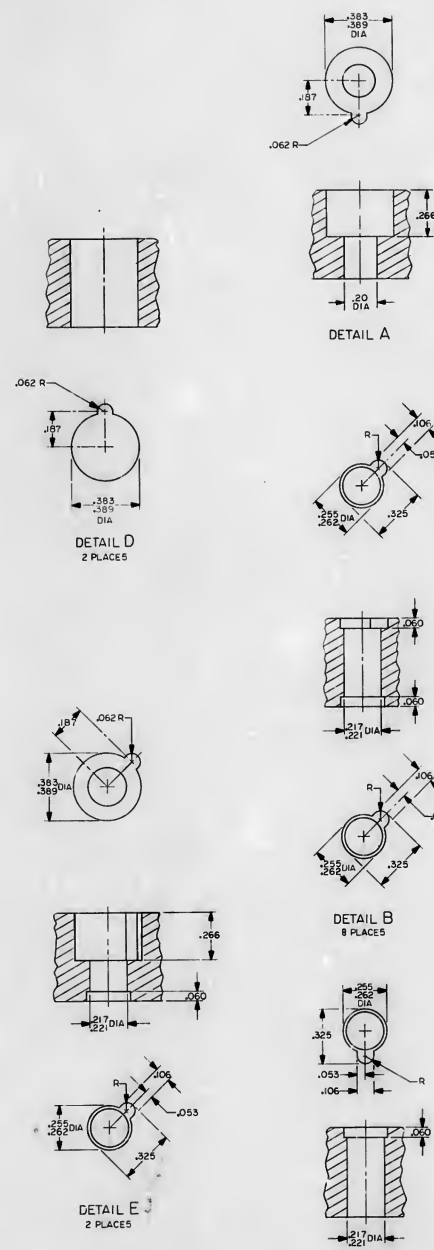
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DETAIL C

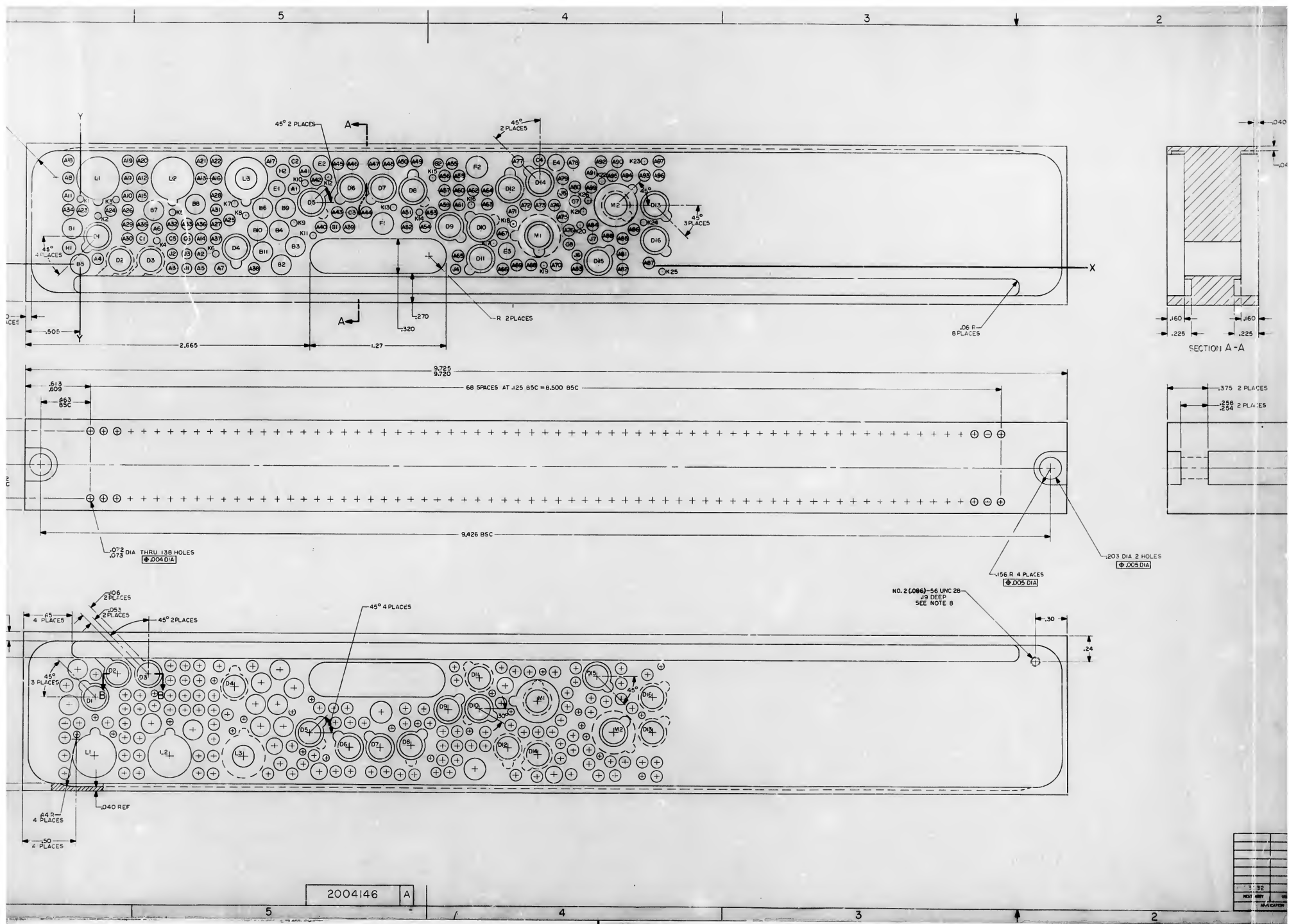
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DETAIL B

2



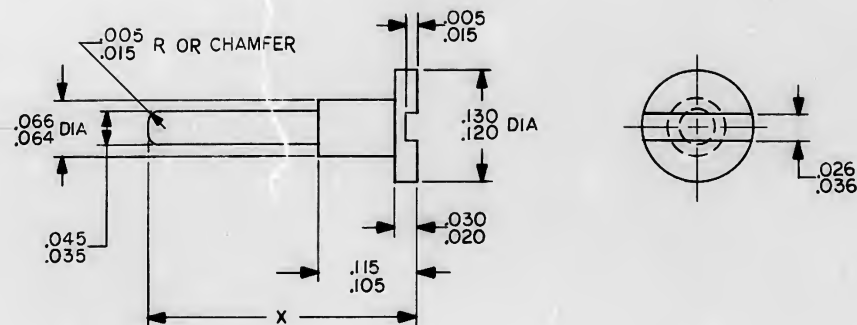
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY ZK-60A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADI TO BE .010 MAX
4. ALL SURFACES UNLESS OTHERWISE SPECIFIED
5. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
6. REMOVE BURRS AND SHARP EDGES .005/D15
7. FINISH: ANODIZE PER MIL-M-45202 TYPE 1, CLASS C
8. TAP HOLE AFTER ANODIZE, COAT PER ND1002040



11

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHT OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

| DASH NO. | DIM. X |
|-------------|-----------|
| 2004154-001 | .355/.345 |



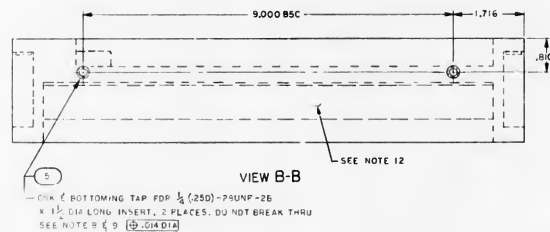
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNPLATED NICKEL IN ACCORDANCE WITH MIL-N-46026
3. CONCENTRICITY WITHIN .005 TIR
4. UNLESS OTHERWISE SPECIFIED 125° ALL OVER
5. REMOVE BURRS AND BREAK SHARP EDGES .005 TO .015
6. IDENTIFY PER ND1002019

MASTER

| | | |
|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm .005 \pm DO NOT SCALE THIS DRAWING |
| | | MATERIAL |
| | | SEE NOTE 2 |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------|--------------------------------------------|---------------------|
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN <i>[Signature]</i> 3/2/65 CHECKED <i>[Signature]</i> 5/2/65 APPROVED APPROVED <i>[Signature]</i> 12/2/65 | | | TERMINAL, LUG | |
| APPROVED MIT <i>[Signature]</i> 1/2/65 APPROVED MSC <i>[Signature]</i> | | | CODE IDENT NO. 80230 SIZE C | DRAWING NO. 2004154 |
| DATE | | | SCALE 10/1 | SHEET 1 OF 1 |

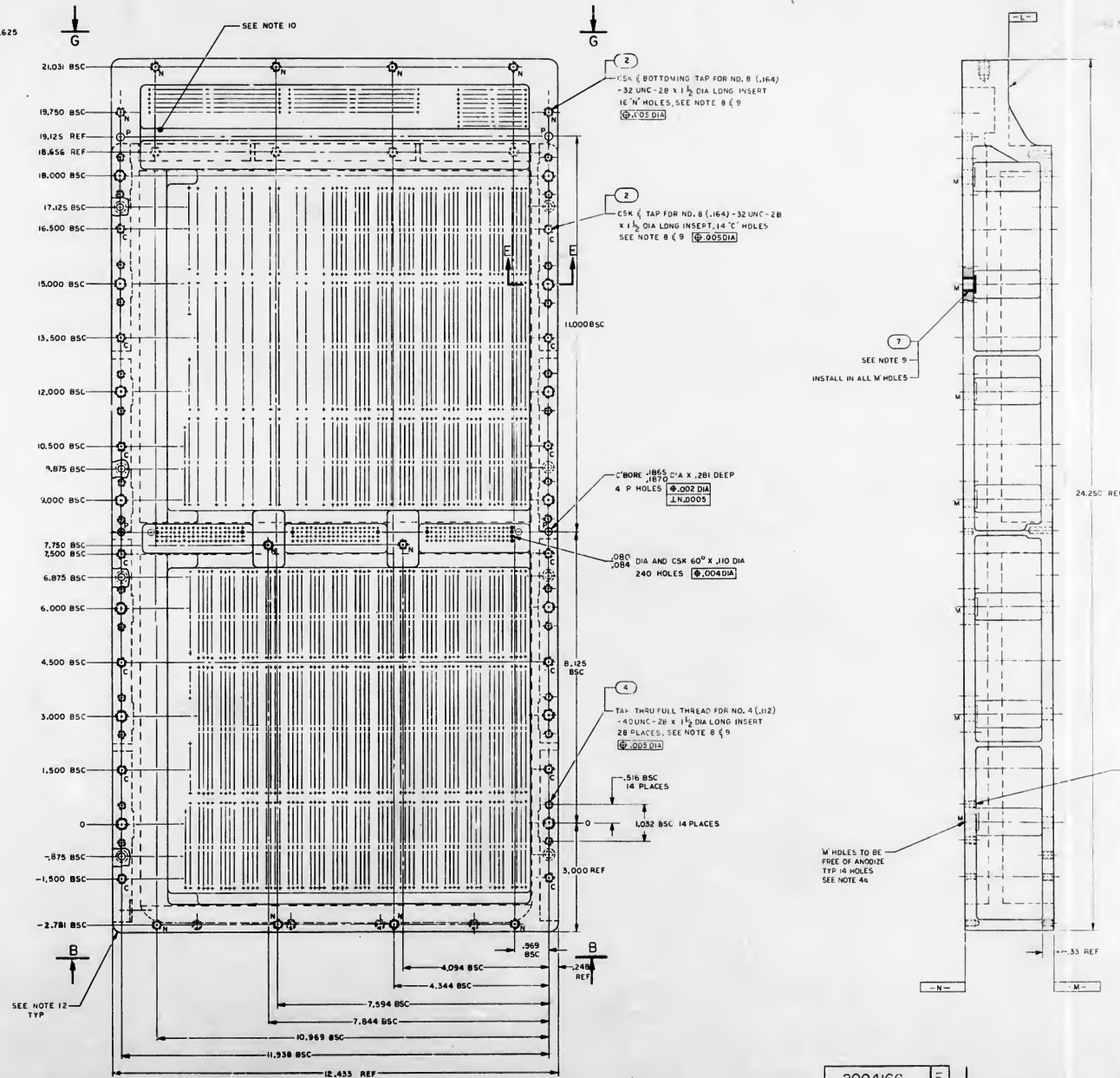


SECTION E-E
14 PLACES

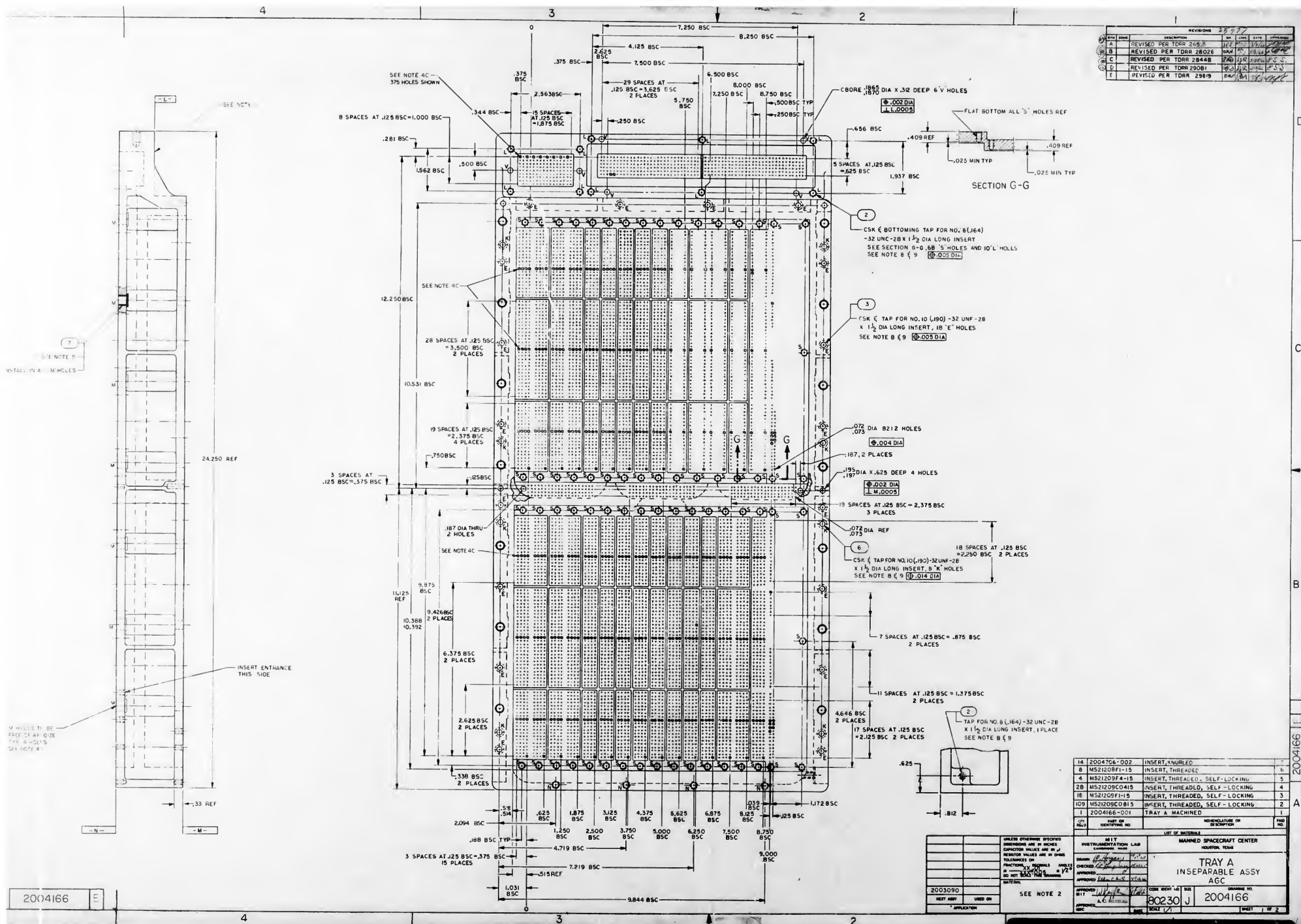
VIEW B-B

NOTES

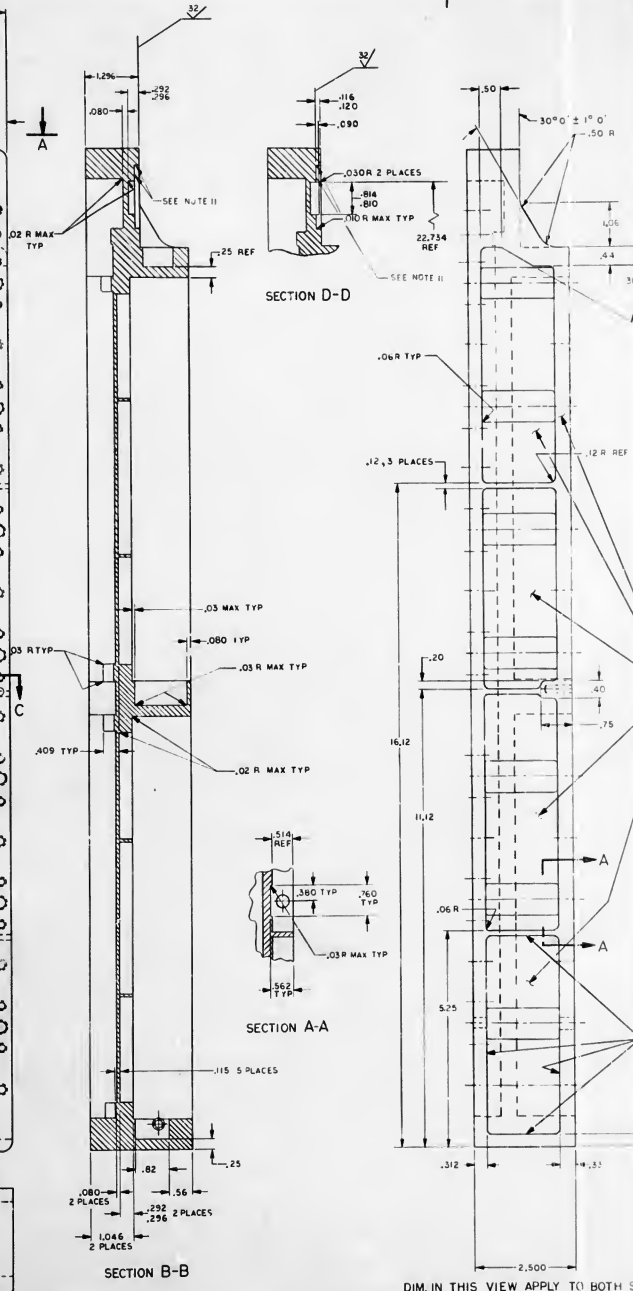
- INTERMITTENT DRAWING IN ACCORDANCE WITH STANDARD, PRESCRIBED BY MIL-D-70327
1. MATERIAL: MIL-VMGMS1N 2460A-75 PER QQ-M 31,ITEM 2E
2. ANODIZE PER MIL-H-4502, TYPE I, CLASS C
3. HIDDEN RADI SURFACES SHALL BE: TREAT OF ANODIZE, TREAT PER MIL-M-3171, TYPE VI
6. b) TAP C/F, b) N HOLES AFTER ANODIZE AND TREAT PER MIL-M-3171, TYPE VI
7. 1/32" Holes SHALL BE FREE OF ANODIZE TREAT PER MIL-M-3171, TYPE VI
8. COAT SURFACES 1/2" OR LESS OTHERWISE SPECIFIED
9. REMOVE BURRS AND SHARP EDGES .003/.015 UNLESS OTHERWISE SPECIFIED
10. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADI .125
11. REMOVE BURRS AND SHARP EDGES .003/.015 UNLESS OTHERWISE SPECIFIED
12. COAT FINE H.7. AND H.3. 4.5. AND 6. PER MIL-PRC-336 AND REMOVE DRIVING TANG
13. COAT FINE H.7.7. AND H.3. 4.5. AND 6. PER MIL-PRC-336 AND REMOVE DRIVING TANG
14. IDENTIFY WITH PART NO. PER ND100229 AND SERIALIZE PER ND100228 WHERE SHOWN
15. APPLY FOLLOWING FINISHES TO SURFACES INDICATED, ALL HOLES AND INSERTS TO BE FREE OF FINISHES
16. PRIMER ONLY PER ND1002279 USING 1010392
17. PRIMER ALUMINUM FILLED PRIMER PER ND1002279 USING 1010392
18. APPLY FOLLOWING FINISHES TO SURFACES INDICATED, INCLUDING RADI, ALL HOLES AND INSERTS TO BE FREE OF THESE FINISHES:
19. PRIMER GRAY PER ND1002279 USING 1010392-1
20. FINAL COAT SURFACES PER ND1002277 USING 1012453-003



2004166



SH 2 / 2



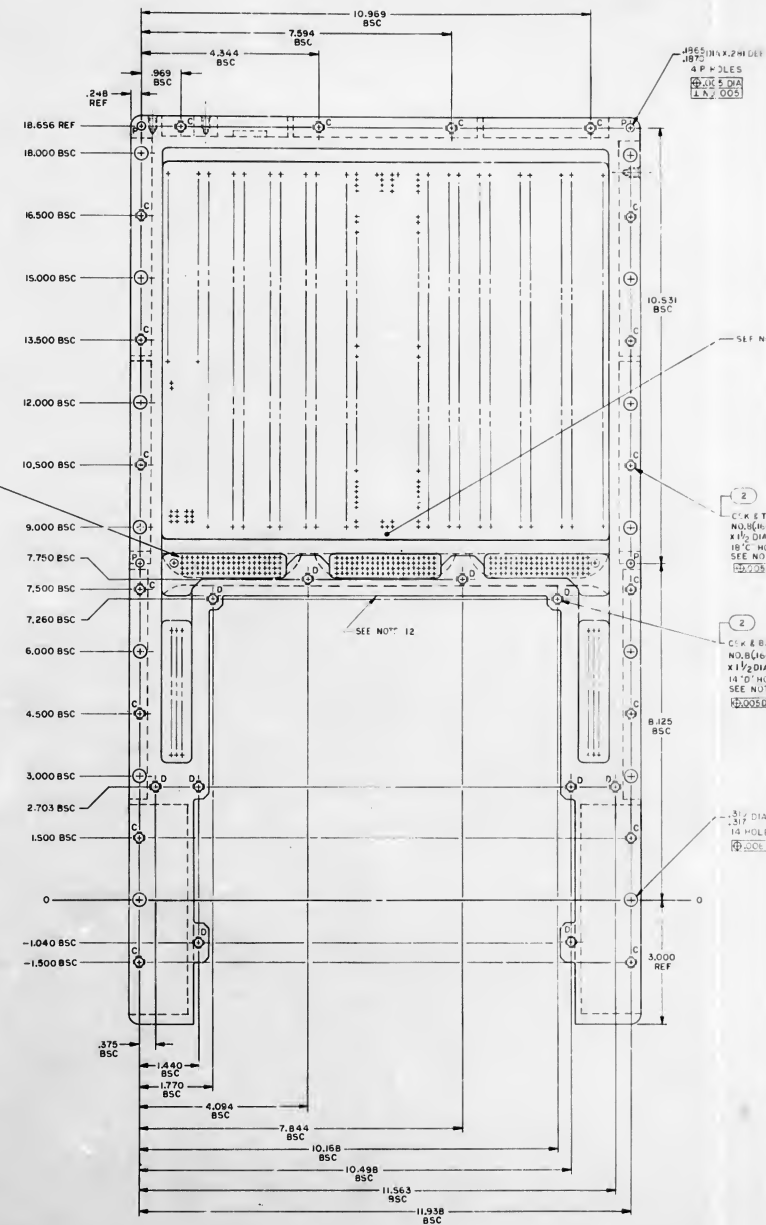
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[illegible]

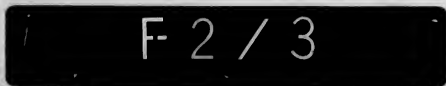
DETAIL A

DETAIL B

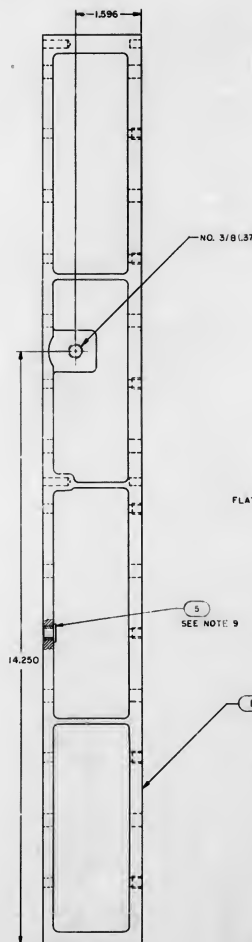
VIEW B-B



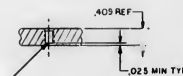
NOTES



| | | | |
|----|------------------------|--------------------------------|-------------------------|
| 9 | 2004706-001 | INSERT, KNURED | |
| 1 | M521209 TC-15 | INSERT, THREADED, SELF-LOCKING | |
| 0 | M521209 F1-15 | INSERT, THREADED, SELF-LOCKING | |
| 0 | M521209 C0815 | INSERT, THREADED, SELF-LOCKING | |
| 1 | 2003167-001 | TRAY, MACHINE D | |
| RY | PART OR REVISION NO | | HOMEWORK OR REVISION |

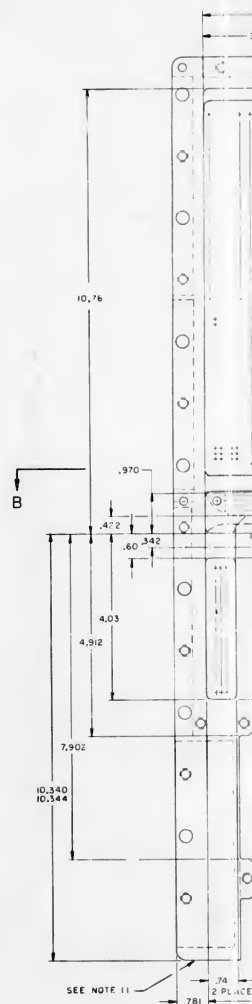


FLAT BOTTOM ALL S&T HOLES REF



5
SEE NOTE 5

2004i67



F-1 / 3

SH 2 / 2

2004167

E

13 PLACES

.12 P MAX TYP

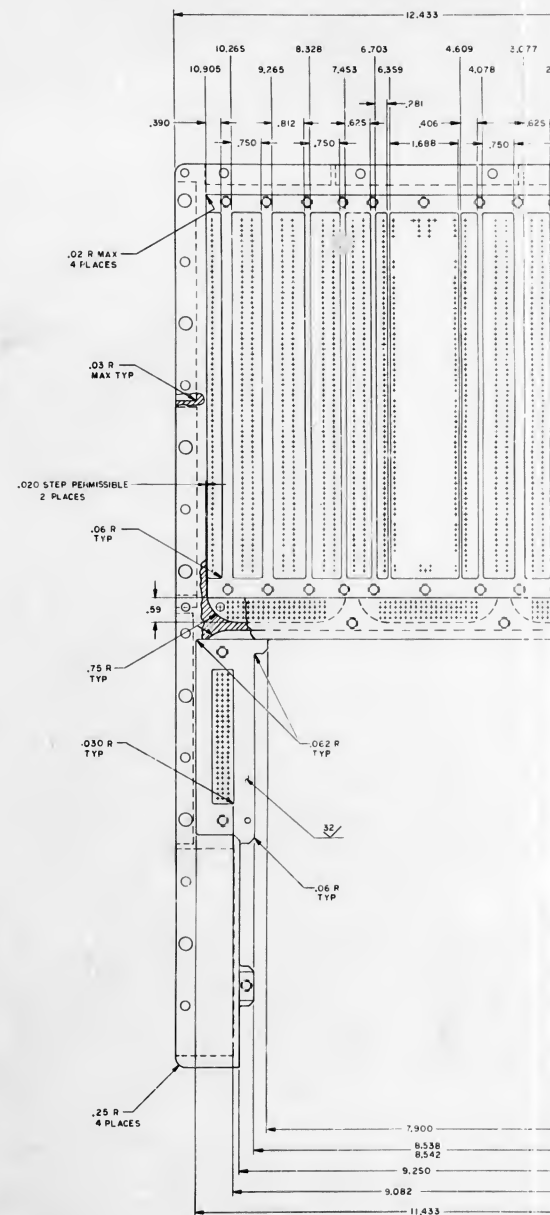
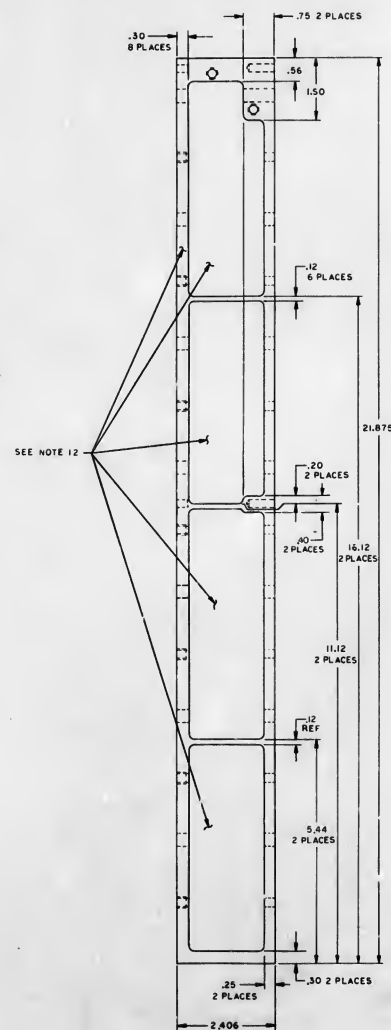
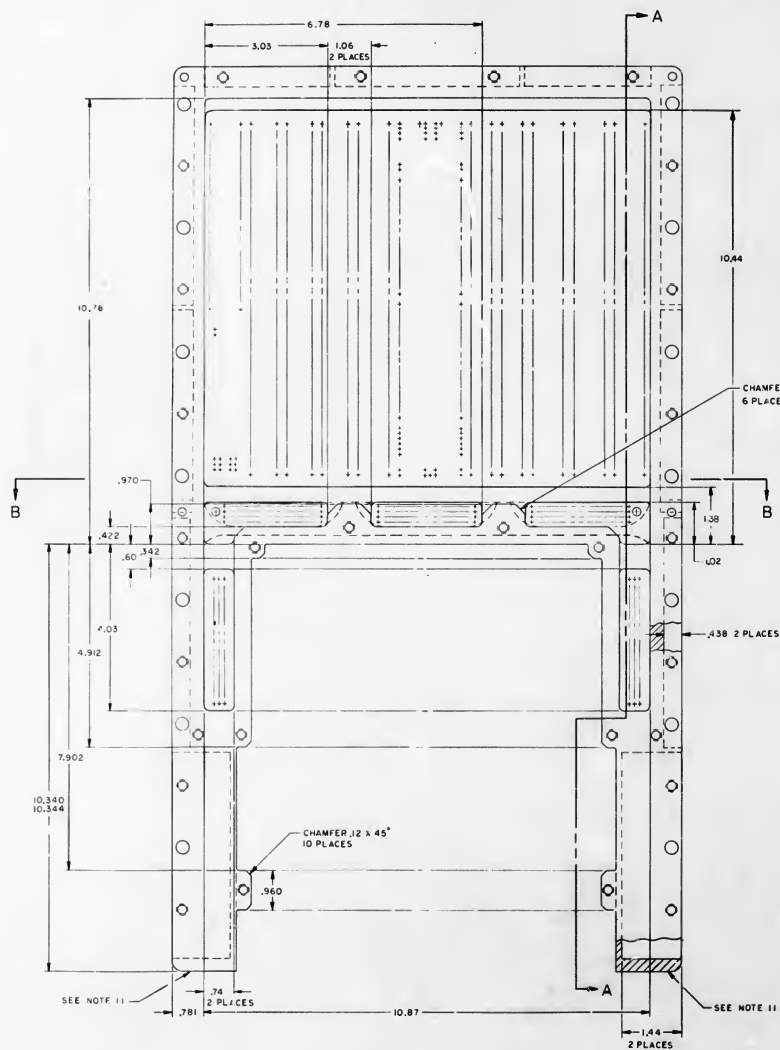
.03 R MAX TYP

.03 R TYP

1 PLACES

PLACES

PLACES



F2/3

SH2/2

2004167

E

A

| | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------|--|------------------------|--|
| REF ID: A66043 | | REPORT OF DISSEMINATION NO. | | HIGHLIGHTING OR DESCRIPTION | | PAGE NO. | |
| UNLESS OTHERWISE SPECIFIED GRAYS ARE IN INCHES CIRCULAR VALUES ARE IN RADIANS VALUES ARE IN DEGREES TOLERANCES ON DIMENSIONS (1) TYPICAL UNLESS OTHERWISE SPECIFIED (2) NOT SCALE THIS DRAWING NOTES | | MAT ID IDENTIFICATION LAW NUMBER DRAWN CHECKED APPROVED DATE | | MAT OF MATERIAL MARKED SPECIFICATION CENTER MATERIAL TYPE TRAY B INSEPARABLE ASSY AGC | | DRAWING NO. 2004167 | |
| NEXT ASSY USED ON | | APPROVED BY | | DATE | | REV | |
| APPLICATION | | DETAILS | | DATE | | REV | |

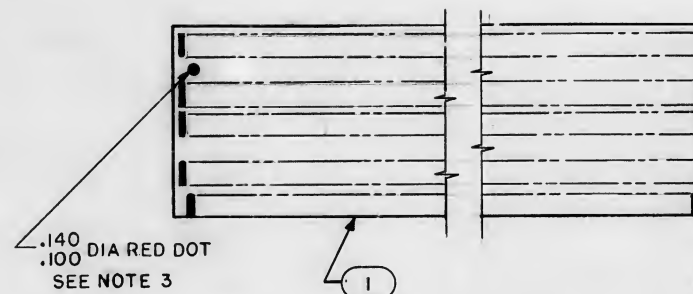
4

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSION, WRITING, ERROR, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED OR FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

| SYM | | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|--|------|-------------|----|-----|------|----------|
| | | | | | | | |

| PART NO. | FIND NO. I | REF MOD NO. |
|------------|-------------|-------------|
| 204250-001 | 1006390-001 | A1 |
| -002 | -002 | A1 |
| -003 | -003 | A2 |
| -004 | -004 | A2 |
| -005 | -005 | A3 |
| -006 | -006 | A3 |
| -007 | -007 | A4 |
| -008 | -008 | A4 |
| -009 | -009 | A5 |
| -010 | -010 | A5 |
| -011 | -011 | A6 |
| -012 | -012 | A6 |
| -013 | -013 | A7 |
| -014 | -014 | A7 |
| -015 | -015 | A8 |
| -016 | -016 | A8 |
| -015 | -015 | A9 |
| -016 | -016 | A9 |
| -015 | -015 | A10 |
| -016 | -016 | A10 |
| -015 | -015 | A11 |
| -016 | -016 | A11 |
| -017 | -017 | A12 |
| -018 | -018 | A12 |
| 204250-019 | 1006390-019 | A13 |

| PART NO. | FIND NO. I | REF MOD NO. |
|------------|-------------|-------------|
| 204250-020 | 1006390-020 | A14 |
| -021 | -021 | A14 |
| -022 | -022 | A15 |
| -023 | -023 | A15 |
| -024 | -024 | A16 |
| -025 | -025 | A16 |
| -026 | -026 | A17 |
| -027 | -027 | A17 |
| -028 | -028 | A18 |
| -029 | -029 | A18 |
| -030 | -030 | A19 |
| -031 | -031 | A19 |
| -032 | -032 | A20 |
| -033 | -033 | A20 |
| -034 | -034 | A21 |
| -035 | -035 | A21 |
| -036 | -036 | A22 |
| -037 | -037 | A22 |
| -038 | -038 | A23 |
| -039 | -039 | A23 |
| -040 | -040 | A24 |
| 204250-041 | 1006390-041 | A24 |



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. IDENTIFY WITH PART NO. PER ND1002019
3. MARK RED DOT USING INK PER 1006271-8 APPROXIMATELY WHERE SHOWN

GENERAL REQUIREMENT
UPON COMPLETION OF ALL REQUIREMENTS AS SPECIFIED IN ND 1002293, THE BOARDS WHICH QUALIFY FOR FLIGHT HARDWARE UNDER THE PROVISIONS OF ND.1002293 SHALL BE MARKED IN RED AS INDICATED IN THIS DOCUMENT

| | |
|-------------|---------|
| 2003086 | USED ON |
| APPLICATION | |

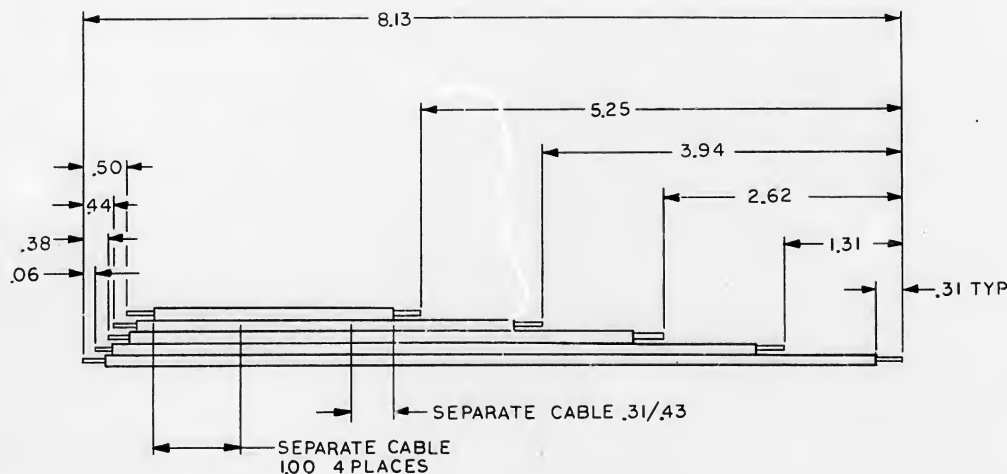
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ f
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
 \pm \pm \pm
DO NOT SCALE THIS DRAWING

MATERIAL

| | | | |
|---------------------------------------------|-------------------------|------------------------------------------------|--------------|
| 1 | 1006390- | MULTILAYER CIRCUIT BOARD | 1 |
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN <i>N. Horgan</i> | 3 FEB 66 | MULTILAYER CIRCUIT BOARD (FLIGHT QUALIFIED) | |
| CHECKED <i>cc. R. Horgan</i> | 3 FEB 66 | | |
| APPROVED <i>cc. R. Horgan</i> | 3 FEB 66 | | |
| APPROVED <i>cc. R. Horgan</i> | 3 FEB 66 | CODE IDENT NO. SIZE 80230 C | |
| APPROVED MIT <i>W. K. Metzger</i> | DATE | DRAWING NO. 2004250 | |
| APPROVED MSC | DATE | SCALE NONE | SHEET 1 OF 1 |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

| REVISIONS | | | | | |
|-----------|------|-----------------------------------|----|-----|------------------|
| SYM | ZONE | DESCRIPTION | DR | CHK | DATE |
| A | | INITIAL RELEASE <i>TDRA 32992</i> | | | <i>14 Feb 67</i> |



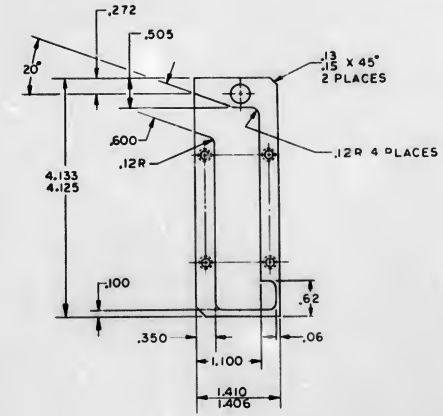
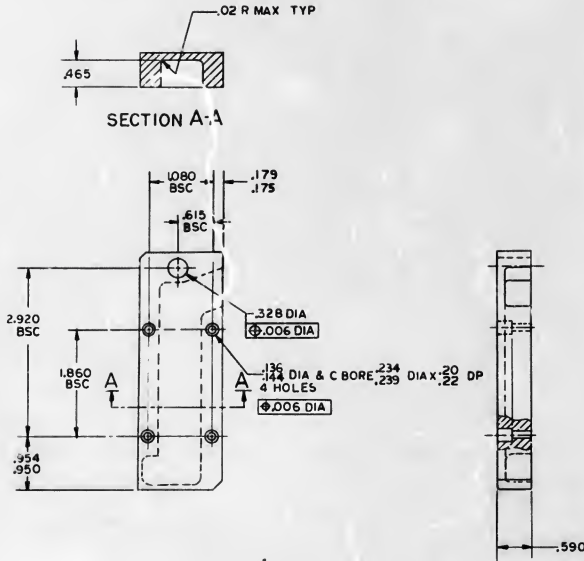
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAKE FROM 1006343-001
3. IDENTIFY WITH PART NO. PER ND1002019

| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|---------------------------------------------|-------------------------|-------------------|--------------------------------------------|--------------|
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN <i>Barry L. Fuller</i> 10 OCT 66 | | | FLAT CABLE FIXED MEMORY MODULE | |
| CHECKED <i>Pharm</i> 11 OCT 66 | | | | |
| APPROVED <i>Edgar C. Hall</i> 28 OCT 66 | | | | |
| APPROVED <i>[Signature]</i> | | | CODE IDENT NO. SIZE | DRAWING NO. |
| APPROVED MSC <i>[Signature]</i> | | | 80230 C | 2004685 |
| DATE | | | SCALE NONE | SHEET 1 OF 1 |

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .03 \pm — DO NOT SCALE THIS DRAWING | |
| MATERIAL | |
| SEE NOTE 2 | |
| 2003972 | |
| NEXT ASSY | USED ON |
| APPLICATION | |

2004685A

[illegible]

SECTION A-A

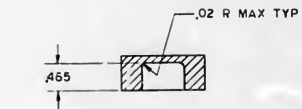
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. REMOVE BURRS AND SHARP EDGES .005/.015
 3. ALL SURFACES 125/
 4. MATL: 6061-T6-AL PER QQ-A-250/11,TEMP 6
 5. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
 6. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
 7. IDENTIFY WITH PART NO. PER NR 1002019

| | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|--|--------------|--|
| QTY REQD | | PART ON IDENTIFYING NO. | | NOMENCLATURE OR DESCRIPTION | | FINO NO | |
| | | | | LIST OF MATERIALS | | | |
| | | M I T INSTRUMENTATION LAB CAMBRIDGE, MASS | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | DRAWN <u>E. L. Jones</u> 10 FEB 64 CHECKED <u>J. C. Jones</u> 10 FEB 64 APPROVED <u>J. C. Jones</u> 10 FEB 64 APPROVED <u>J. C. Jones</u> 10 FEB 64 | | COVER CONNECTOR B42 FIXED MEMORY | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN OHMS RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS, DECIMALS, ANGLES ARE: <u>± .005</u> <u>± .005</u> <u>± .5°</u> DO NOT SCALE THIS DRAWING | | MATERIAL | | DRAWING NO. | | | |
| 2003059 | | SEE NOTE 4 | | CODE IDENT NO | | SIZE | |
| NEXT ASSY | | USED ON | | 80230 | | 2004700 | |
| APPLICATION | | APPROVED MPC | | DATE | | SHEET 1 OF 1 | |

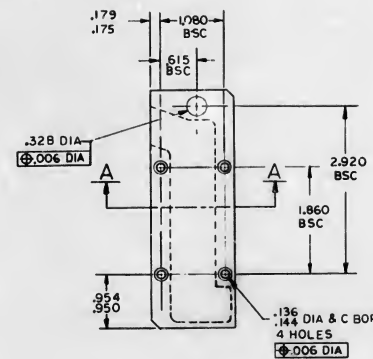
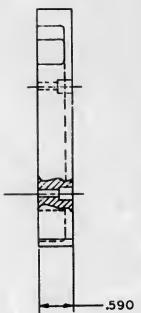
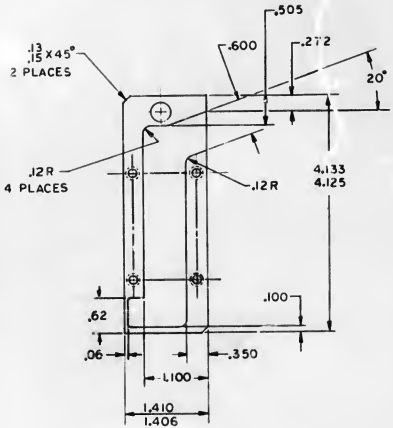
NOTICE: WHEN SUBMITTING DIMENSION SPECIFICATIONS, OR OTHER DATA, THE DRAWING ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA SUBMITTED. THE DRAWING ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA SUBMITTED. THE DRAWING ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA SUBMITTED.

2004702

| REV | DATE | BY | CHK | DATE | APPROVED |
|-----|----------|--------------|-----|------|----------|
| 1 | 10/15/66 | W. J. WILSON | | | |
| 2 | 10/15/66 | W. J. WILSON | | | |
| 3 | 10/15/66 | W. J. WILSON | | | |
| 4 | 10/15/66 | W. J. WILSON | | | |
| 5 | 10/15/66 | W. J. WILSON | | | |
| 6 | 10/15/66 | W. J. WILSON | | | |
| 7 | 10/15/66 | W. J. WILSON | | | |
| 8 | 10/15/66 | W. J. WILSON | | | |
| 9 | 10/15/66 | W. J. WILSON | | | |
| 10 | 10/15/66 | W. J. WILSON | | | |

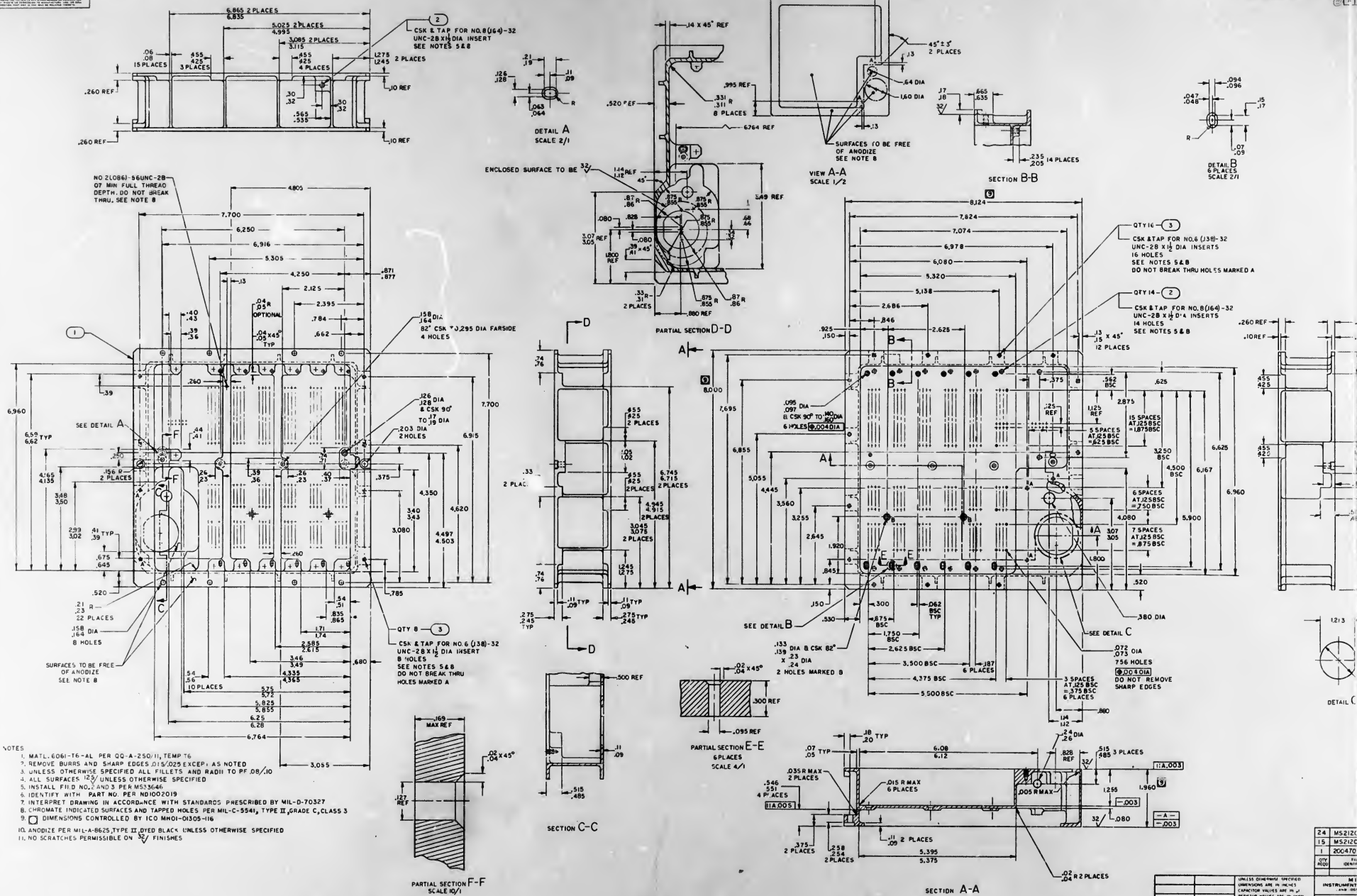


SECTION A-A



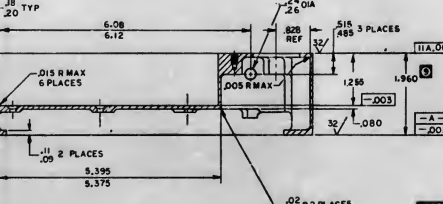
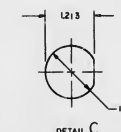
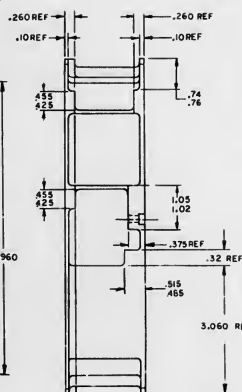
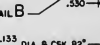
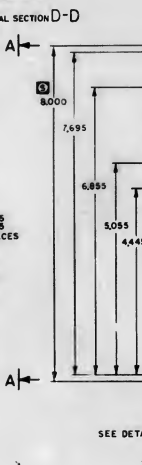
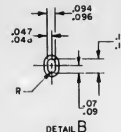
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. REMOVE BURRS AND SHARP EDGES .005/.015
 3. ALL SURFACES 125
 4. MATL: 6061-T6-AL PER QQ-A-250/11, EMP 6
 5. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
 6. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
 7. IDENTIFY WITH PART NO. PER NDI002019

| | | | |
|-----------------------------------------|-------------------------|-----------------------------------------|----------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FINO NO. |
| | | | |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN BY: J. J. WILSON | | CHECKED BY: J. J. WILSON | |
| APPROVED BY: J. J. WILSON | | APPROVED BY: J. J. WILSON | |
| 2003059 | | 80230 | |
| NEXT ASSY | | CODE IDENT NO. SIZE | |
| APPLICATION | | 80230 D | |
| | | DRAWING NO. 2004702 | |
| | | SHEET 1 OF 1 | |



| | |
|------------------------|-------------|
| 24 | MS2120 |
| 15 | MS2120 |
| I | 200470 |
| QTY REQ | PART IDENT |
| | |
| M I INSTRUMENT AND CO. | |
| DRAWN BY | J. J. H. H. |
| CHECKED BY | J. J. H. H. |
| APPROVED BY | J. J. H. H. |
| APPROVED | |
| APPROVED MIT | |
| APPROVED SEC | |

| | | |
|-------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES IS .005 .01 0° DO NOT SCALE THIS DRAWING |
| 2003947 | | MATERIAL |
| NEXT Assy | USED ON | SEE NOTE 1 |
| APPLICATION | | |



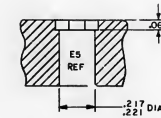
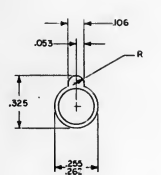
| | | | | |
|------------------------------------|----------------|--------------------------|------------------------------|-------|
| 14 | MS21209-C0B5 | | INSERT,THREADED SELF LOCKING | 3 |
| 15 | MS21209-C0B5 | | INSERT,THREADED SELF LOCKING | 2 |
| 1 | 20CA475-0G1 | | PLATE,1DM | 1 |
| CITY | | PLANT OR | NOMINATURE OR | PRINT |
| REQD | IDENTIFYING NO | NO. NOTED | OR SKETCH | NO |
| LIST OF MATERIALS | | | | |
| MIT | | MANPED SPACECRAFT CENTER | | |
| INSTRUMENTATION LAB | | HOUSTON, TEXAS | | |
| BY: <i>Q3</i> | | DATE: <i>10/26/66</i> | | |
| CHECKED: <i>Q3</i> | | DATE: <i>10/26/66</i> | | |
| APPROVED: <i>Q3</i> | | DATE: <i>10/26/66</i> | | |
| APPROVED: | | DATE: | | |
| APPROVED: <i>W. K. G. H. G. H.</i> | | DATE: <i>10/26/66</i> | | |
| MIT | CODE IDENT NO | REV | DRAWING NO | |
| <i>W. K. G. H. G. H.</i> | <i>80230</i> | <i>J</i> | <i>2004705</i> | |
| DATE | DATE | DATE | DATE | |
| | | | | |

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK50A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADIUS .001 MAX.
4. ALL SURFACES UNLESS OTHERWISE SPECIFIED
5. IDENTIFY WITH PART NO. PER NO. 1000000
6. REMOVE BURRS AND SHARP EDGES .005/0.015
7. FINISH: ANODIZE PER MIL-M-42022, TYPE I, CLASS C
8. TAP HOLE (H) AFTER ANODIZE, COAT PER NICKEL 8040
9. COAT THREADS WITH MIL-P-8585, COLOR YELLOW
10. BREAKOUTS PERMISSIBLE WHERE SHOWN WITH *

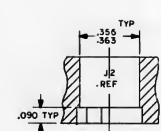
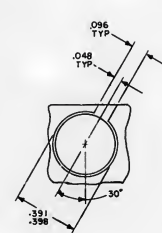
| HOLE IDENT | X DIM. | Y DIM. | HOLE DIA | QTY |
|------------|--------|--------|----------|-----|
| A1 | -.042 | .126 | | |
| A2 | .000 | .000 | | |
| A3 | -.009 | .347 | | |
| A4 | .075 | .448 | | |
| A5 | .357 | .434 | | |
| A6 | .357 | .695 | | |
| A7 | .357 | .887 | | |
| A8 | .450 | .000 | | |
| A9 | .480 | .487 | | |
| A10 | .495 | .253 | | |
| A11 | .450 | .371 | | |
| A12 | .560 | .458 | | |
| A13 | .787 | .371 | | |
| A14 | .775 | .522 | | |
| A15 | .848 | .200 | | |
| A16 | .891 | .325 | | |
| A17 | .897 | .021 | | |
| A18 | .977 | .458 | | |
| A19 | 1.254 | .432 | | |
| A20 | 1.254 | .595 | | |
| A21 | 1.254 | .887 | | |
| A22 | 1.250 | .000 | | |
| A23 | 1.777 | .487 | | |
| A24 | 1.992 | .253 | | |
| A25 | 1.457 | .371 | | |
| A26 | 1.957 | .458 | | |
| A27 | 1.664 | .371 | | |
| A28 | 1.672 | .522 | | |
| A29 | 1.745 | .000 | | |
| A30 | 1.788 | .325 | | |
| A31 | 1.794 | .021 | | |
| A32 | 1.868 | .118 | | |
| A33 | 2.151 | .432 | | |
| A34 | 2.151 | .35 | | |
| A35 | 2.151 | .87 | | |
| A36 | 2.244 | .000 | | |
| A37 | 2.274 | .487 | | |
| A38 | 2.585 | .253 | | |
| A39 | 2.354 | .371 | | |
| A40 | 2.454 | .458 | | |
| A41 | 2.561 | .371 | | |
| A42 | 2.569 | .522 | | |
| A43 | 2.642 | .000 | | |
| A44 | 2.685 | .325 | | |
| A45 | 2.691 | .021 | | |
| A46 | 2.766 | .458 | | |
| A47 | 3.048 | .432 | | |
| A48 | 3.048 | .595 | | |
| A49 | 3.048 | .887 | | |
| A50 | 3.141 | .000 | | |
| A51 | 3.171 | .487 | | |
| A52 | 3.186 | .253 | | |
| A53 | 3.251 | .371 | | |
| A54 | 3.351 | .458 | | |
| A55 | 3.458 | .371 | | |
| A56 | 3.464 | .522 | | |
| A57 | 3.537 | .887 | | |
| A58 | 3.720 | .000 | | |
| A59 | 3.831 | .555 | | |
| A60 | 3.834 | .887 | | |
| A61 | 3.893 | .000 | | |
| A62 | 3.897 | .386 | | |
| A63 | 3.961 | .498 | | |
| A64 | 3.961 | .842 | | |
| A65 | 4.021 | .282 | | |
| A66 | 4.041 | .371 | | |
| A67 | 4.219 | .735 | | |
| A68 | 4.451 | .282 | | |
| A69 | 4.451 | .530 | | |
| A70 | 4.557 | .500 | | |
| A71 | 4.606 | .325 | | |
| A72 | 4.632 | .000 | | |
| A73 | 4.687 | .458 | | |
| A74 | 4.969 | .432 | | |
| A75 | 4.969 | .595 | | |
| A76 | 4.969 | .887 | | |
| A77 | 5.062 | .000 | | |
| A78 | 5.092 | .487 | | |
| A79 | 5.107 | .253 | | |
| A80 | 5.172 | .371 | | |
| A81 | 5.272 | .458 | | |
| A82 | 5.389 | .371 | | |
| A83 | 5.387 | .522 | | |
| A84 | 5.460 | .000 | | |
| A85 | 5.503 | .325 | | |
| A86 | 5.509 | .021 | | |
| A87 | 5.584 | .458 | | |
| A88 | 5.866 | .432 | | |
| A89 | 5.866 | .595 | | |
| A90 | 5.866 | .887 | | |
| A91 | 5.959 | .000 | | |
| A92 | 5.989 | .487 | | |
| A93 | 6.009 | .253 | | |
| A94 | 6.069 | .371 | | |
| A95 | 6.169 | .458 | | |
| A96 | 6.276 | .371 | | |
| A97 | 6.284 | .522 | | |
| A98 | 6.357 | .000 | | |
| A99 | 6.400 | .325 | | |
| A100 | 6.406 | .021 | | |

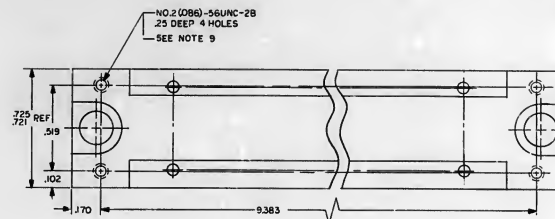
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|------------|--------|--------|----------|-----|
| A101 | 6.481 | .458 | | |
| A102 | 6.763 | .432 | | |
| A103 | 6.763 | .595 | | |
| A104 | 6.763 | .887 | | |
| A105 | 6.856 | .000 | | |
| A106 | 6.856 | .487 | | |
| A107 | 6.901 | .253 | | |
| A108 | 6.956 | .371 | | |
| A109 | 7.046 | .458 | | |
| A110 | 7.173 | .371 | | |
| A111 | 7.181 | .522 | | |
| A112 | 7.254 | .000 | | |
| A113 | 7.297 | .325 | | |
| A114 | 7.303 | .021 | | |
| A115 | 7.378 | .458 | | |
| A116 | 7.660 | .432 | | |
| A117 | 7.660 | .595 | | |
| A118 | 7.660 | .887 | | |
| A119 | 7.753 | .000 | | |
| A120 | 7.783 | .487 | | |
| A121 | 7.798 | .253 | | |
| A122 | 7.863 | .371 | | |
| A123 | 7.963 | .458 | | |
| A124 | 8.070 | .371 | | |
| A125 | 8.078 | .522 | | |
| A126 | 8.168 | .495 | | |
| A127 | 8.232 | .742 | | |
| A128 | 8.440 | .715 | | |
| A129 | 8.410 | .467 | | |
| A130 | 8.701 | .582 | | |
| A131 | 8.777 | .112 | | |
| A132 | 8.810 | .442 | | |
| A133 | 8.850 | .513 | | |
| A134 | 8.890 | .000 | | |
| A135 | 8.935 | .603 | | |
| A136 | 8.155 | .632 | | |
| B1 | 3.610 | .107 | | |
| B2 | 4.118 | .867 | | |
| B3 | 4.312 | .867 | | |
| B4 | 8.350 | .867 | | |
| C1 | 3.757 | .167 | | |
| C2 | 3.836 | .262 | | |
| C3 | 3.901 | .162 | | |
| C4 | 4.240 | .253 | | |
| C5 | 4.352 | .367 | | |
| C6 | 4.352 | .530 | | |
| C7 | 4.451 | .481 | | |
| C8 | 4.451 | .760 | | |
| C9 | 8.395 | .887 | | |
| C10 | 8.476 | .376 | | |
| C11 | 8.495 | .510 | | |
| C12 | 8.552 | .887 | | |
| C13 | 8.842 | .900 | | |
| C14 | 4.260 | .630 | | |
| C15 | 8.416 | .535 | | |
| D1 | 3.897 | .720 | | |
| D2 | 4.480 | .892 | | |
| E1 | .660 | .112 | | |
| E2 | 1.557 | .112 | | |
| E3 | 2.454 | .112 | | |
| E4 | 3.351 | .112 | | |
| E5 | 3.685 | .740 | | |
| E6 | 3.685 | .026 | | |
| E7 | 4.092 | .046 | | |
| E8 | 4.162 | .441 | | |
| E9 | 4.382 | .061 | | |
| E10 | 5.272 | .112 | | |
| E11 | 6.169 | .112 | | |
| E12 | 7.066 | .112 | | |
| E13 | 7.963 | .112 | | |
| E14 | 8.263 | .455 | | |
| E15 | 8.570 | .077 | | |
| E16 | 8.647 | .780 | | |
| E17 | 8.647 | .320 | | |
| F1 | .225 | .180 | | |
| F2 | 1.122 | | | |
| F3 | 2.019 | | | |
| F4 | 2.916 | | | |
| F5 | 4.827 | | | |
| F6 | 5.734 | | | |
| F7 | 6.631 | | | |
| F8 | 7.528 | .180 | | |
| G1 | .115 | .740 | | |
| G2 | .192 | | | |
| G3 | .190 | | | |
| G4 | .2905 | | | |
| G5 | .4727 | | | |
| G6 | .5624 | | | |
| G7 | .6521 | | | |
| G8 | .7418 | .740 | | |

| HOLE IDENT | X DIM. | Y DIM. | HOLE DIA | QTY |
|------------|--------|--------|----------|-----|
| H1 | -.017 | .512 | | |
| H2 | .237 | .507 | | |
| H3 | .430 | .347 | | |
| H4 | .797 | .022 | | |
| H5 | .866 | .457 | | |
| H6 | 1.134 | .507 | | |
| H7 | 1.327 | .347 | | |
| H8 | 1.694 | .022 | | |
| H9 | 1.753 | .437 | | |
| H10 | 2.031 | .507 | | |
| H11 | 2.224 | .347 | | |
| H12 | 2.591 | .022 | | |
| H13 | 2.660 | .437 | | |
| H14 | 2.928 | .507 | | |
| H15 | 3.121 | .347 | | |
| H16 | 3.497 | .022 | | |
| H17 | 3.555 | .603 | | |
| H18 | 3.827 | .085 | | |
| H19 | 5.930 | .607 | | |
| H20 | 6.416 | .515 | | |
| H21 | 4.340 | .725 | | |
| H22 | 4.557 | .457 | | |
| H23 | 4.849 | .507 | | |
| H24 | 5.042 | .347 | | |
| H25 | 5.409 | .022 | | |
| H26 | 6.478 | .37 | | |
| H27 | 5.746 | .507 | | |
| H28 | 5.939 | .347 | | |
| H29 | 6.354 | .022 | | |
| H30 | 6.375 | .437 | | |
| H31 | 6.643 | .507 | | |
| H32 | 6.936 | .347 | | |
| H33 | 7.203 | .022 | | |
| H34 | 7.272 | .437 | | |
| H35 | 7.540 | .507 | | |
| H36 | 7.733 | .347 | | |
| H37 | 8.100 | .022 | | |
| H38 | 8.583 | .600 | | |
| J1 | .600 | .740 | | |
| J2 | 1.497 | | | |
| J3 | 2.394 | | | |
| J4 | 3.291 | | | |
| J5 | 5.212 | | | |
| J6 | 6.109 | | | |
| J7 | 7.006 | | | |
| J8 | 7.903 | .740 | | |
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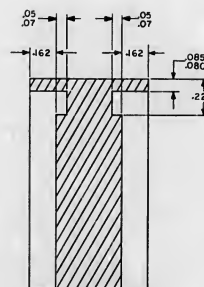
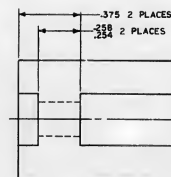


SECTION C-C
TYP





NO. 2 (086)-56 UNC-2B -
THRU, SEE NOTE 8



SECTION A-A

| | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|--|----------------------------------------------------------------------------------------------------------------|--|--------------------|--|
| QTY REQD | | PART OR IDENTIFYING NO | | DESCRIPTION OR EXPLANATION | | UNIT OF MEASURE | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON PARTS: 1. RESISTORS 1% 2. CAPACITORS 5% 3. NOT TO EXCEED THE MARKING INDICATED | | | | LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS HENDERSON HOUSING SENSE AMPLIFIER MODULE | | | |
| SEE NOTE 2 | | | | CODE IDENT NO. SIZE 802308 2004708 | | | |
| DRAWING NO. | | | | 1000 4/1 1000 4/1 | | | |

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|-------------------------|----|-----|------|-------------------------|
| - | | RELEASED PER TDRR 30648 | | | | <i>[Signature]</i> 8/11 |

| REF DES | FIND NO. |
|---------|----------|
| Q9 | |
| Q10 | 1 |
| Q11 | |

| CHART A | | |
|----------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| TEST | CONDITION | LIMITS |
| D.C. CURRENT GAIN | $I_C = 150 \text{ MA}$ $V_{CE} = 1 \text{ VCLT}$ | THE BETA SHALL BE MATCHED SUCH THAT OF THE THREE DEVICES THE MAX BETA VALUE DIVIDED BY THE MINIMUM SHALL NOT YIELD A FACTOR OF MORE THAN 1.5 |
| V_{BE} | $I_B = 20 \text{ MA}$ | V_{BE} SHALL BE MATCHED WITHIN 10 MILLIVOLTS FOR THE THREE UNITS |
| $V_{CE \text{ SAT}}$ | $I_B = 15 \text{ MA}$ $I_C = 150 \text{ MA}$ | $V_{CE \text{ SAT}}$ SHALL BE MATCHED WITHIN 10 MILLIVOLTS FOR THE THREE UNITS |

| | | | | |
|----------------------------------------------|---------------------------|-----------------------------------------------|--------------------------------|-------------------------------|
| 3 | 2004004-002 | TRANSISTOR | | 1 |
| QTY REQD | PART OR IDENTIFYING NO | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIN NO |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE MASS | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN | | TRANSISTOR SELECTION LIST POWER SUPPLY | | |
| CHECKED | | | | |
| APPROVED | | | | |
| APPROVED | | | | |
| APPROVED MSC | | CODE IDENT NO 80230 | SIZE C | DRAWING NO. 2004722 |
| | DATE | SCALE | NONE | |
| | | SHEET | OF | |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ F
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
 \pm \pm \pm
DO NOT SCALE THIS DRAWING

| MATERIAL | |
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| 99 | ... |
| 100 | ... |

2003953

| QTY ASSY | USED ON |
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| 1 | 1000000000 |

 $\Delta f(f) \approx \frac{1}{f} \left(\frac{\partial f}{\partial t} \right)$

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN - *[Signature]*
CHECKED *[Signature]*
APPROVED _____
APPROVED *[Signature]*

TRANSISTOR SELECTION LIST
POWER SUPPLY

APPROVED *Enfant 8/1*
C.C.G.

| | | |
|----------------|------|-------------|
| CODE IDENT NO. | SIZE | DRAWING NO. |
| 80230 | C | 2004722 |

| | | | |
|-------------------|------|------------|------------|
| APPROVED <i>1</i> | DATE | SCALE NONE | SHEET 1 OF |
|-------------------|------|------------|------------|

CCD002

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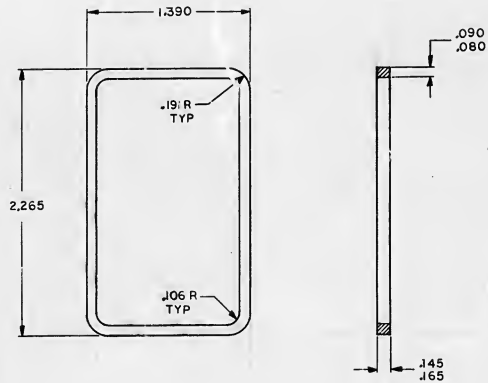
A

D

C

B

A



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-1000
2. IDENTIFY WITH PART NO. PER ND1002019
3. MATL: SILICONE RUBBER PER MIL-R-5847, CLASS IIB, GRADE 40

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2004727

| SYN | | DESCRIPTION | DATE | APPROVED |
|-----|--|-------------|------|----------|
| | | | | |

| | | | |
|--------------------------------------------|-------------------------|-----------------------------|----------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| | | | |
| LIST OF MATERIALS | | | |
| RAYTHEON CO. LEXINGTON, MASS. | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| GASKET, RUBBER AGC | | | |
| CODE IDENT NO. 80230 D | | | |
| NASA DRAWING NO. 2004727 | | | |
| SCALE 2 / 1 WT | | | |
| SHEET 1 OF 1 | | | |

| | | |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES ±.005 ± | 2003099 NEXT ASSY USED ON APPLICATION | SEE NOTE 3 |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------|

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2004727

ARTICLE - WORKING DRAWING REQUIREMENTS AND STANDARDS
 THE USER AND SUPPLIER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THIS DRAWING. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THIS DRAWING. THE USER SHALL BE RESPONSIBLE FOR THE PROPER USE OF THIS DRAWING.

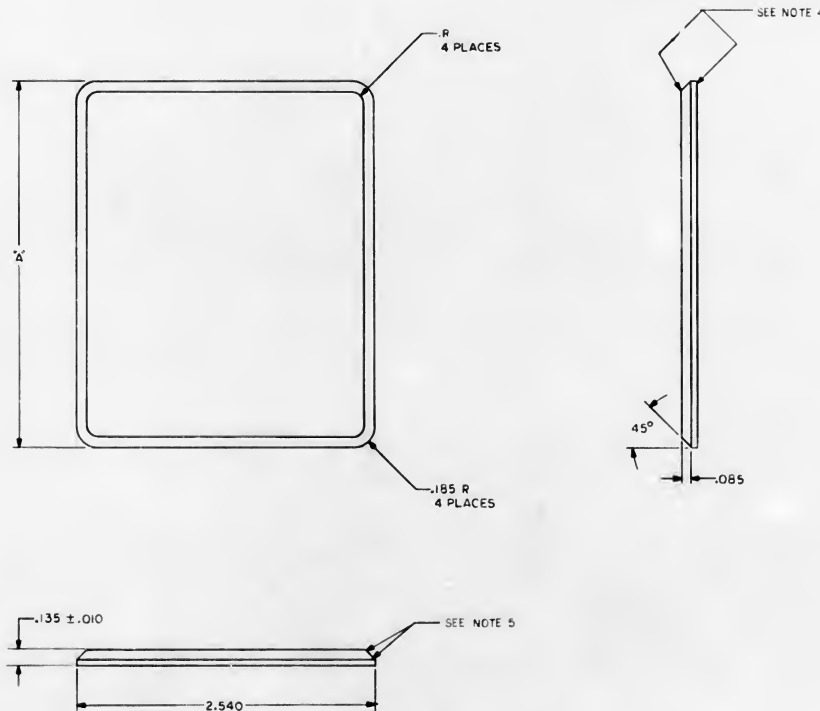
| REVISIONS | | | | DATE | APPROVED |
|-----------|----|-----------------------|----|----------|----------|
| REV | NO | DESCRIPTION | BY | DATE | APPROVED |
| A | | REVISED PER TDR 30557 | W | 11/14/44 | W |

| PART NO | DIM A |
|---------|-------|
| -001 | 3.135 |
| -002 | 4.358 |
| -003 | 4.358 |

SEE NOTES 4&5

| | |
|-----|-------|
| 003 | 12345 |
| 002 | 123 |
| 001 | 123 |

NOTE APPLICATION



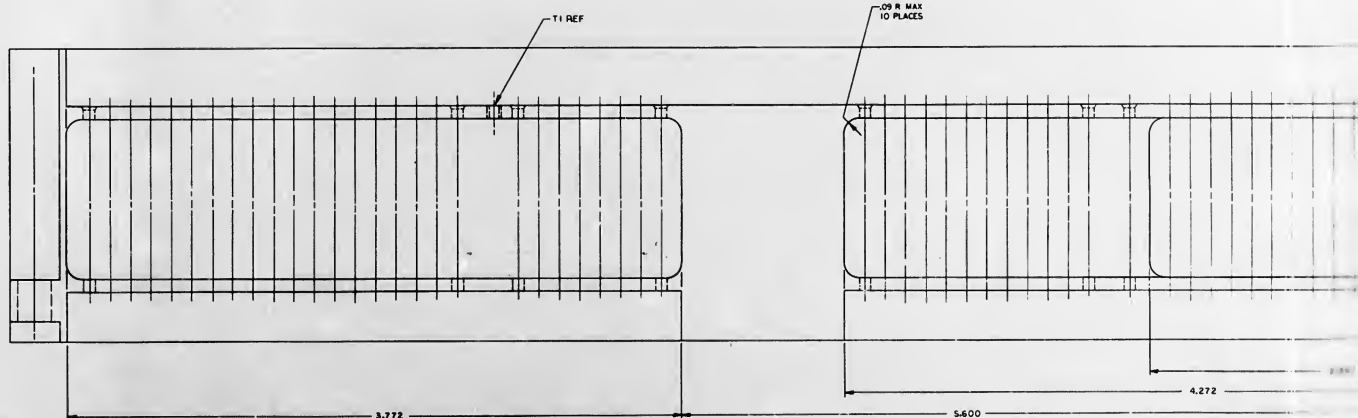
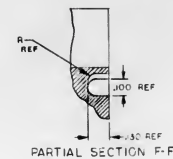
NOTES:
 1. MAT'L: LAMINATED GLASS PER MIL-G-8602A, CLASS II, GRADE 2N

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- IDENTIFY WITH PART NO. PER ND1002019
- FRONT AND REAR SURFACES TO HAVE ANTI-REFLECTION COATING PER MIL-C-675A EXCEPT REQUIREMENTS OF PARA. 46.9
- BORDER SURFACE SHALL BE FREE OF COATING PER NOTE 4

| | | | | |
|----------------------------|------------------------|-----------------------------------------|-----------------------------|--------|
| QTY REQ | PART OR IDENTIFYING NO | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIG NO |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN: J.P. [Signature] | | PANEL INDICATOR IL-EL AGC DSKY | | |
| CHECKED: J.P. [Signature] | | CODE IDENT NO: 80230 D | | |
| APPROVED: J.P. [Signature] | | DRAWING NO: 2004743 | | |
| APPROVED: J.P. [Signature] | | DATE: 11/14/44 | | |
| APPROVED: J.P. [Signature] | | SCALE: 2/1 | | |

2004743 A

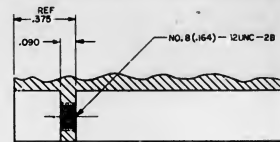
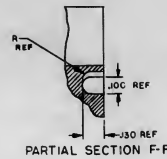
| ROLE | X DIM. | Y DIM. | DIA | QTY |
|------|--------|--------|------------------------|------|
| H1 | 6.555 | .675 | | |
| H2 | 5.555 | .675 | | |
| H3 | 1.595 | .675 | .108 | 5 |
| H4 | 2.220 | .330 | .112 | |
| H5 | 7.220 | -.080 | | |
| J1 | 6.920 | .690 | | 669 |
| J2 | 5.555 | .690 | | .678 |
| K1 | 1.570 | .600 | SEE DETAIL B | 1 |
| L1 | 1.095 | .730 | SEE DETAIL B | 1 |
| M1 | 2.535 | .675 | SEE DETAIL C | 1 |
| M2 | 1.940 | .550 | OP F58C6 60 P58X50 | 2 |
| N1 | 1.550 | .260 | | |
| N2 | 1.850 | -.405 | | |
| N3 | 1.850 | .420 | | |
| N4 | 5.975 | .865 | | |
| N5 | 3.500 | .335 | | |
| N6 | 2.220 | .335 | 4.50 X 30 C9 P58 C9 | 30 |
| N7 | 1.945 | .920 | 60 P58X50 | |
| N8 | -.130 | .265 | | |
| P1 | 6.945 | .340 | | |
| P2 | 2.185 | .735 | | |
| P3 | 1.775 | .645 | | |
| P4 | 2.220 | .330 | | |
| P5 | 5.610 | .295 | | |
| P6 | 1.920 | .160 | | |
| P7 | 2.220 | .330 | | |
| P8 | 2.640 | .330 | | |
| P9 | 1.272 | .305 | | |
| R1 | 6.400 | .420 | -.435 DETAL A | 1 |
| S1 | 4.240 | .715 | .321 | |
| S2 | 7.595 | .645 | .328 | |
| S3 | 2.330 | .145 | | |
| S4 | 2.330 | .145 | | |
| T1 | 3.981 | 1.146 | NG 20CR6 | |
| T2 | 4.054 | .280 | SHAW-28 | |
| T3 | 8.500 | -.095 | 5.35 DEEP SEE NOTE6 | |
| U1 | 2.760 | .130 | .205 | |
| U2 | 2.065 | .730 | .166 | |
| U3 | 2.065 | .730 | .166 | |
| U4 | 2.330 | .145 | | |
| U5 | 2.330 | .145 | | |
| U6 | 2.330 | .145 | | |
| U7 | 2.330 | .145 | | |
| U8 | 2.330 | .145 | | |
| U9 | 2.330 | .145 | | |
| U10 | 2.330 | .145 | | |
| U11 | 2.330 | .145 | | |
| U12 | 2.330 | .145 | | |
| U13 | 2.330 | .145 | | |
| U14 | 2.330 | .145 | | |
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| U30 | 2.330 | .145 | | |
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| U37 | 2.330 | .145 | | |
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| U40 | 2.330 | .145 | | |
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| U42 | 2.330 | .145 | | |
| U43 | 2.330 | .145 | | |
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| U45 | 2.330 | .145 | | |
| U46 | 2.330 | .145 | | |
| U47 | 2.330 | .145 | | |
| U48 | 2.330 | .145 | | |
| U49 | 2.330 | .145 | | |
| U50 | 2.330 | .145 | | |
| U51 | 2.330 | .145 | | |
| U52 | 2.330 | .145 | | |
| U53 | 2.330 | .145 | | |
| U54 | 2.330 | .145 | | |
| U55 | 2.330 | .145 | | |
| U56 | 2.330 | .145 | | |
| U57 | 2.330 | .145 | | |
| U58 | 2.330 | .145 | | |
| U59 | 2.330 | .145 | | |
| U60 | 2.330 | .145 | | |
| U61 | 2.330 | .145 | | |
| U62 | 2.330 | .145 | | |
| U63 | 2.330 | .145 | | |
| U64 | 2.330 | .145 | | |
| U65 | 2.330 | .145 | | |
| U66 | 2.330 | .145 | | |
| U67 | 2.330 | .145 | | |
| U68 | 2.330 | .145 | | |
| U69 | 2.330 | .145 | | |
| U70 | 2.330 | .145 | | |



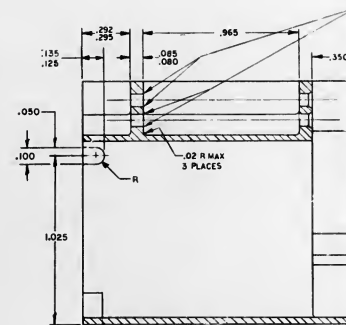
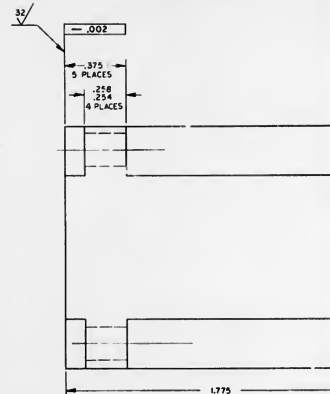
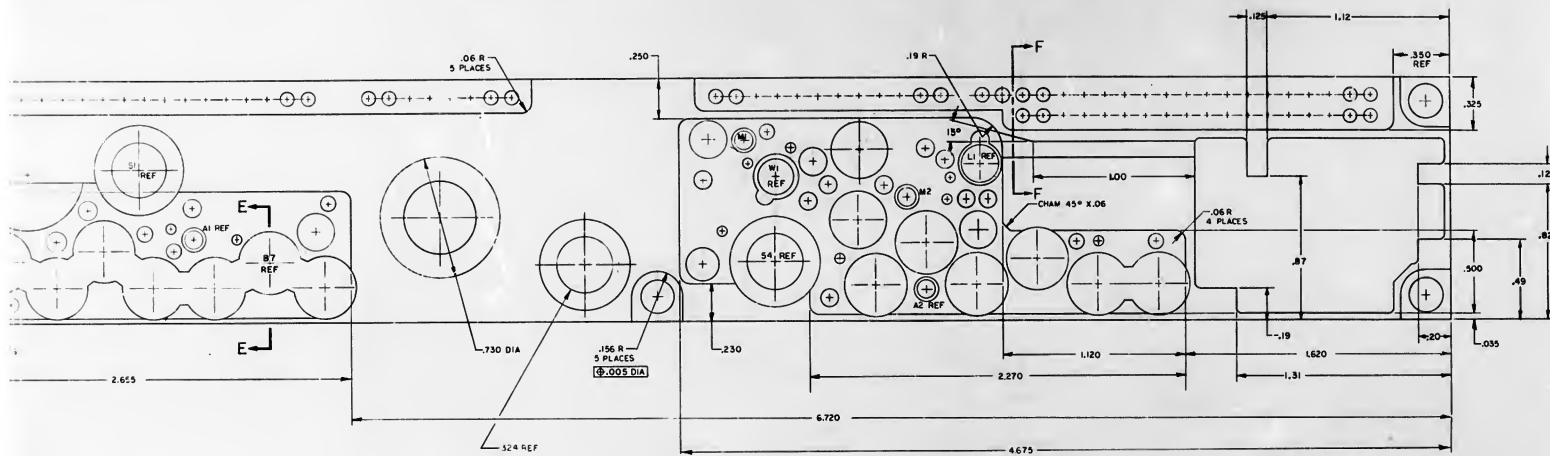
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-Q-70327
2. REMOVE BURRS AND SHARP EDGES 005/015
3. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP T5
4. ANODIZE PER MIL-M-45202, TYPE I, CLASS C
5. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED
6. TAP HOLE AFTER ANODIZE. COAT PER NIDIO2040
7. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .02 MAX
8. IDENTIFY WITH PART NO. PER NIDIO2019

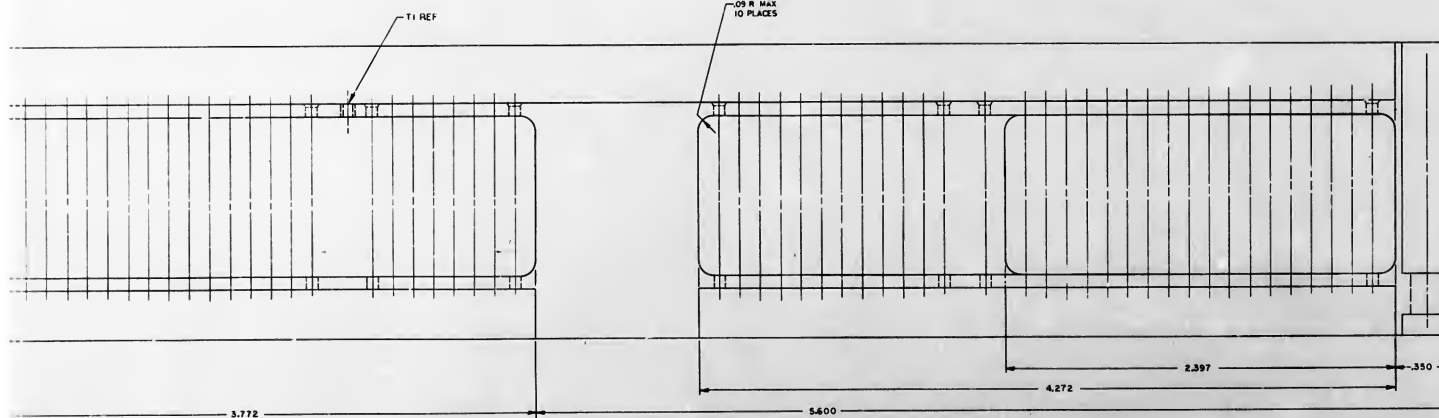
VIEW A-A



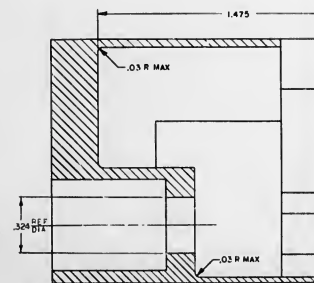
SECTION D-D



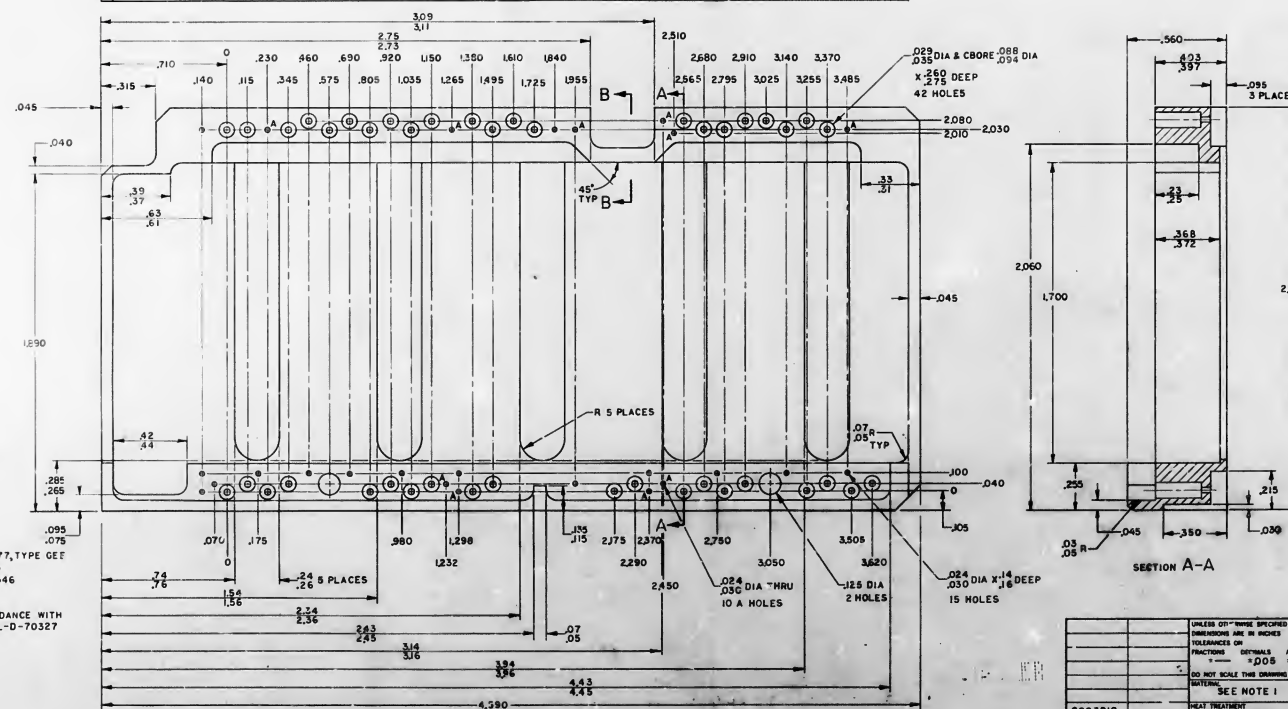
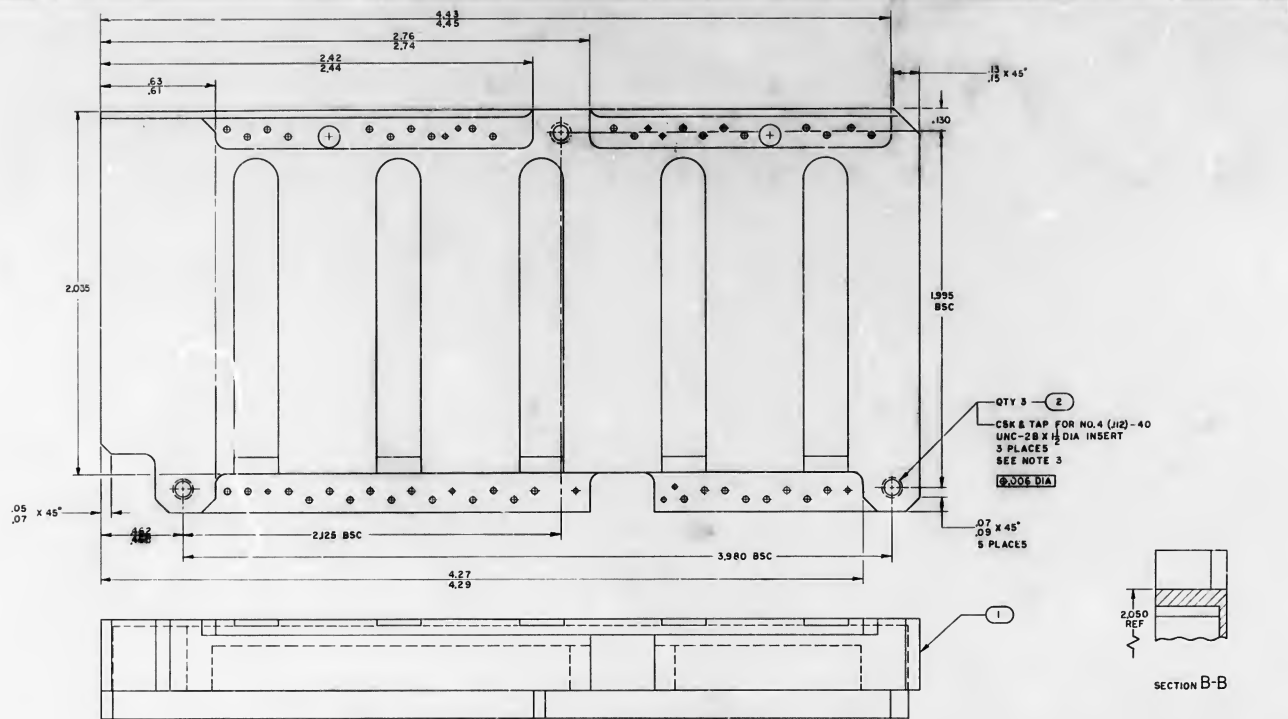
SECTION B-B



VIEW A-A



SECTION C-C



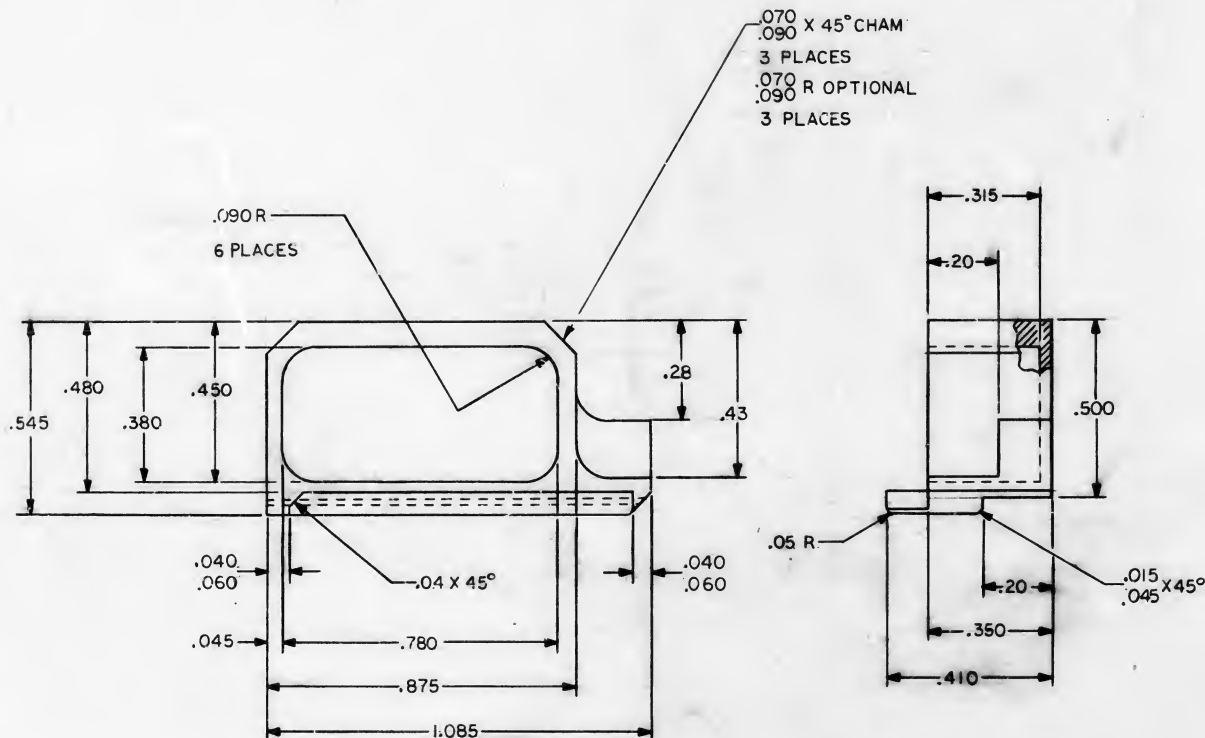
| | | | | | |
|-------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|--|
| UNLESS OTHERWISE INDICATED ARE IN CHARGE OF THE VEHICLE | | SIT INSTRUMENTATION LAB IN CHARGE DATE <i>10/2/84</i> TIME <i>1400</i> CHECKED <i>W. J. [Signature]</i> APPROVAL <i>[Signature]</i> | | MANNED SPACECRAFT CTR HOUSTON, TEXAS | |
| FRACTIONS DETAILS 1000 DO NOT SCALE THE ANALYSIS BATHING | | BLOCK COMPONENT PEL INDICATOR DRIVER MODULE AGC DSKY | | | |
| SEE NOTE 1 | | REATREATMENT NONE | | CODE IDENT NO SIZE 802309 E | |
| NADA 39010 NEXT TEST USED ON | | SIT APPROVAL NONE | | NADA DRAWING NO 2004098 | |
| APPLICATION | | SIT APPROVAL NONE | | DATE 10/2/84 | |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSES THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERS ANY RIGHTS OF INVENTION OR MANUFACTURE, USE OR SELL, ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

B 2004909

REVISIONS 20272

| SYM | ZONE | DESCRIPTION | CR | CHK | DATE | APPROVED |
|-----|------|------------------------|-----|---------|---------|-------------|
| (P) | A | REVISED PER TDDR 22546 | RBG | 8/24/65 | 8/24/65 | [Signature] |
| (P) | B | REVISED PER TDDR 23950 | RPB | 8/24/65 | 8/24/65 | [Signature] |



NOTES

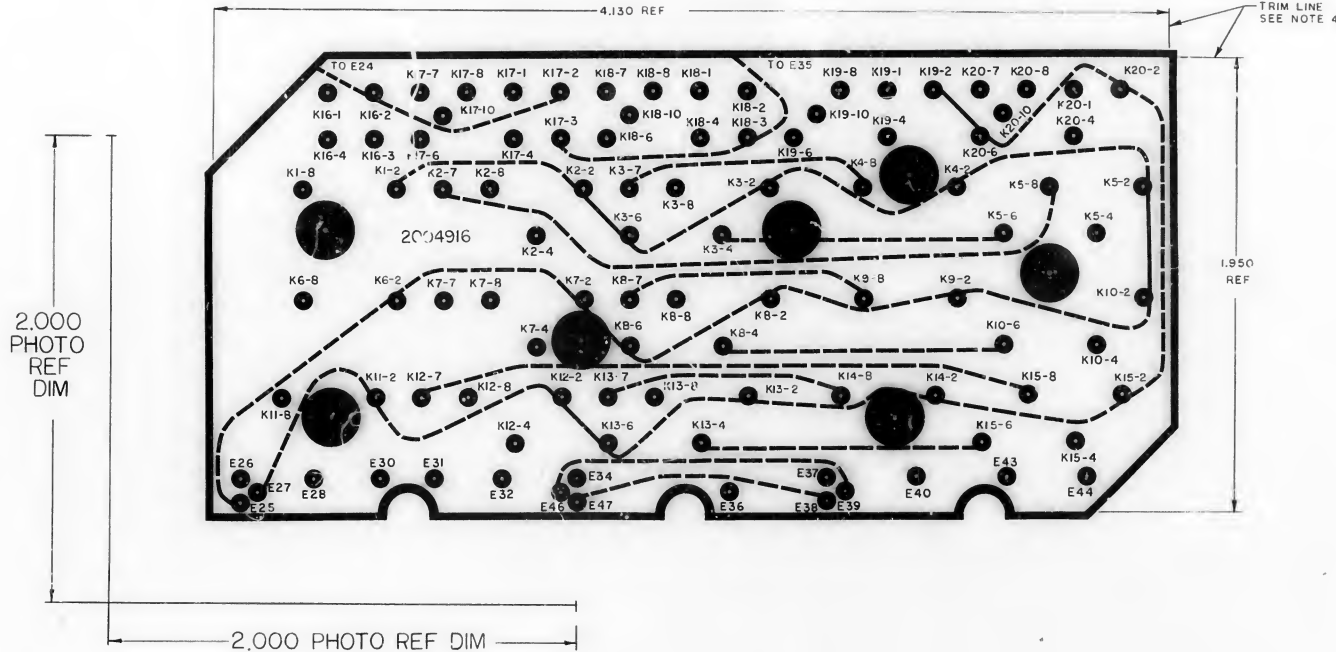
1. MATL: PLASTIC PER MIL-P-18177, TYPE GEE
2. REMOVE SHARP EDGES .005/.015
3. IDENTIFY WITH PART NO. PER PER ND 1002019
4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
5. UNLESS OTHERWISE SPECIFIED ALL RADII TO BE .010 R MAX

| | | |
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| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm .005 \pm 1° DO NOT SCALE THIS DRAWING |
| | | MATERIAL SEE NOTE 1 |
| 2003908 | | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| QTY P/QD | PART OR IDENTIFYING NO. | MATERIAL OR NTDES | NOMENCLATURE OR DESCRIPTION | | FIND NO. |
|------------------------------------------------|----------------------------|--------------------------------------------|---------------------------------------------------------|------|-------------|
| LIST OF MATERIALS | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DRAWN | J.P. Leonard | W.M.M. | BLOCK, COMPONENT INDICATOR DRIVER MODULE AGC DSKY | | |
| CHECKED | [Signature] | [Signature] | | | |
| APPROVED | [Signature] | [Signature] | | | |
| APPROVED | [Signature] | [Signature] | | | |
| APPROVED MIT | [Signature] | [Signature] | CODE IDENT NO. | SIZE | DRAWING NO. |
| APPROVED MSC | [Signature] | 6/24/65 | 80230 | C | 2004909 |
| DATE | | SCALE 4/1 | SHEET 1 OF 1 | | |

NOTICE: UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED.

| REVISIONS | | | | |
|-----------|-------------|------|----------|--|
| SYMBOL | DESCRIPTION | DATE | APPROVED | |
| | | | | |



NOTES

1. MATERIAL: FILM .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT WITHIN .010 OF TRIM LINE
5. BROKEN LINES DENOTES SLEEVING
6. IDENTIFY WITH DRAWING NO. AND REVISION PER ND10C2019
7. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
8. .080/.084 DIA HOLE



9. .240/.260 DIA HOLE

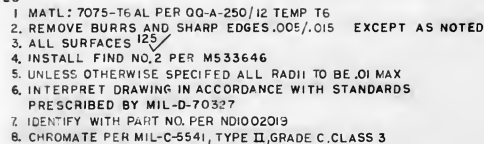
| QTY REQD | | PART OR IDENTIFYING NO. | | MATERIAL OR NOTES | | NOMENCLATURE OR DESCRIPTION | | FIND NO. | | | | | | | |
|--------------------------------------------|--|-------------------------|--|-------------------|--------------------------------------------|-----------------------------|--|----------|--|--|--|--|--|--|--|
| LIST OF MATERIALS | | | | | | | | | | | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS | | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | | | | | | |
| DRAWN <i>[Signature]</i> 15 APR 67 | | | | | INSULATOR, PHOTOMASTER UPPER LEVEL | | | | | | | | | | |
| CHECKED <i>[Signature]</i> 15 APR 67 | | | | | RELAY CIRCUIT, INDICATOR DRIVER | | | | | | | | | | |
| APPROVED <i>[Signature]</i> 15 APR 67 | | | | | DRAWING NO. 2004916 | | | | | | | | | | |
| APPROVED <i>[Signature]</i> 15 APR 67 | | | | | CODE IDENT NO 80230 | | | | | | | | | | |
| APPROVED <i>[Signature]</i> 15 APR 67 | | | | | SCALE 4/1 | | | | | | | | | | |
| APPROVED <i>[Signature]</i> 15 APR 67 | | | | | SHEET 1 OF 1 | | | | | | | | | | |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ F
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL:

SEE NOTE 1

| | |
|-----------|-------------|
| 2003916 | APPLICATION |
| NEXT ASSY | USED ON |

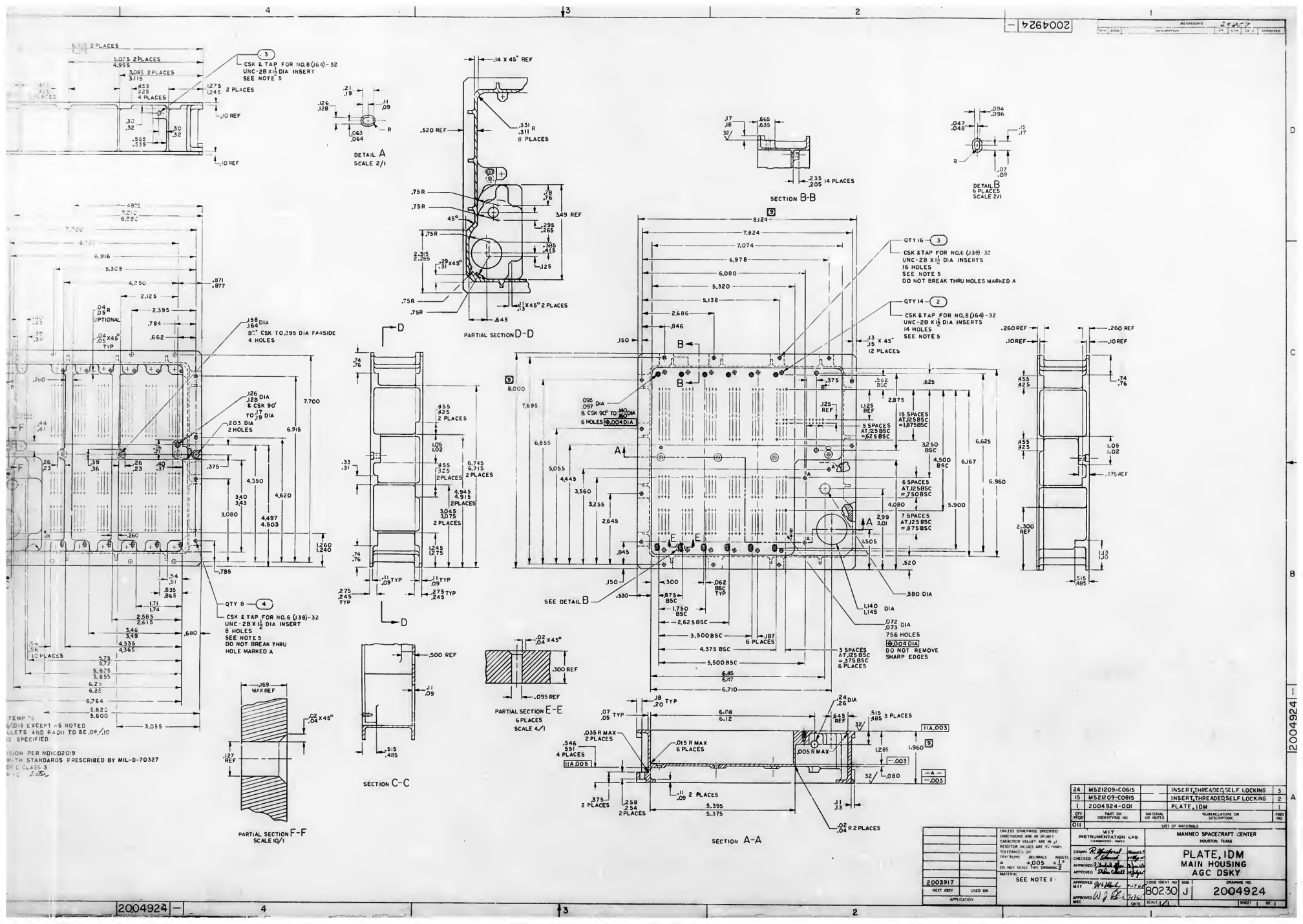
| | | | | | | | | |
|---|---------|---------------------------------------------------------------------------------------------|------|------------------------|-----|-----|---------|----------|
| A | 2004923 | <div style="text-align: right;">2007</div> <div style="text-align: center;">REVISIONS</div> | | | | | | |
| | | SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
| | | A | | REVISED PER TDRR 23428 | WLB | WLB | 11/1/05 | WLB |



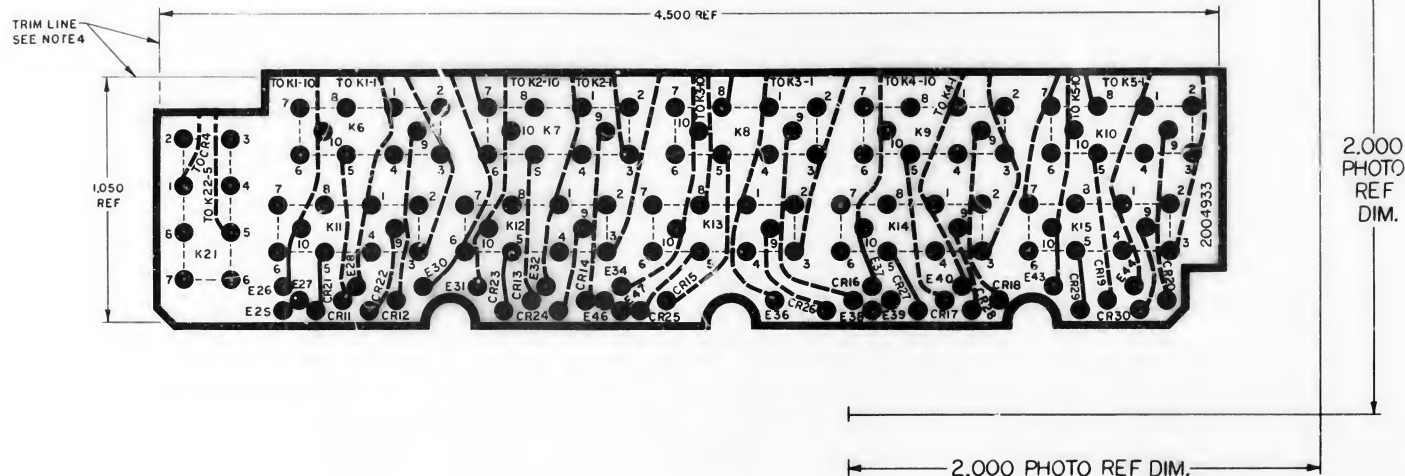
| | | | |
|------------------------------------------------|----------------|----------------------------------------------|------------|
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN <i>B. Howard</i> | | PLATE, CONNECTOR MAIN HOUSING AGC DSKY | |
| CHECKED <i>Plager</i> | | | |
| APPROVED <i>Bill C. Hunt</i> | | | |
| APPROVED BY <i>W. M. Mundy</i> | <i>7-28-66</i> | CODE (HEAT NO.) | SIZE |
| | | 80230 | D |
| APPROVED BY <i>W. J. Plager</i> | <i>7-28-66</i> | DRAWING NO. 2004923 | |
| APPROVED BY <i>W. J. Plager</i> | <i>7-28-66</i> | SCALE <i>2/1</i> | SHEET 1 OF |



| | | | |
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| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | M |
| | | CAPACITOR VALUES ARE IN μ | INSTRUMENT |
| | | RESISTOR VALUES ARE IN OHMS | DATE |
| | | TOLERANCES ON | BY <i>John R. [unclear]</i> |
| | | FRACTIONS DECIMALS ANGLES | CHECKED <i>[unclear]</i> |
| | | ϕ .005 ϕ .010 | A-SPEC'D <i>[unclear]</i> |
| | | DO NOT SCALE THIS DRAWING | APPROVED <i>[unclear]</i> |
| | | MATERIAL | APPROVED <i>[unclear]</i> |
| | | SEE NOTE 1 - | APPROVED <i>[unclear]</i> |
| 2003917 | | | APPROVED <i>[unclear]</i> |
| NEXT ASSY | USED ON | | APPROVED <i>[unclear]</i> |
| | APPLICATION | | APPROVED <i>[unclear]</i> |

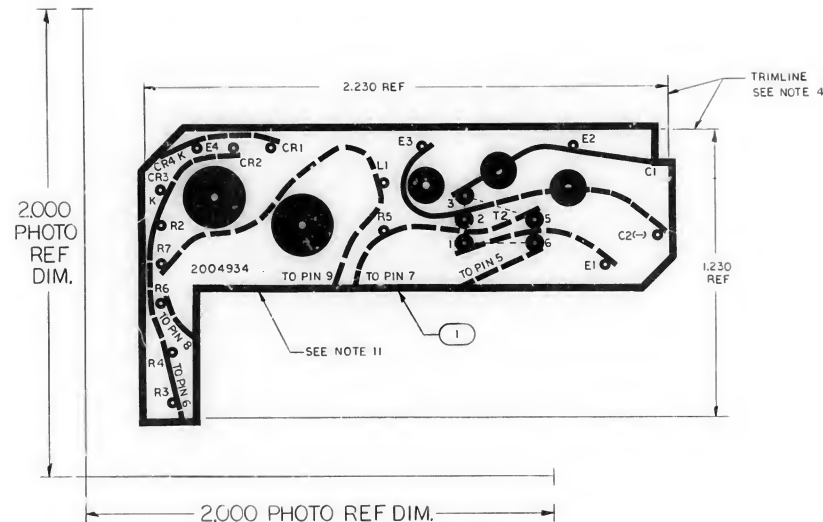


| REVISIONS 20272 | | | |
|-----------------|-----------------------------------------------------------------------|---------|----------|
| SYM | DESCRIPTION | DATE | APPROVAL |
| A | REVISED PER TORR 22162 DR 22162 CHK 22162 02 | 7/25/05 | PKL |
| B | REVISED PER TORR 24005 DR 24005 CHK 24005 02 | 7/25/05 | PKL |







- NOTES
1. MATERIAL: FILM .006/008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
 2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
 3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
 4. CUT TO WITHIN .005 OF TRIM LINE
 5. BROKEN LINE DENOTES SLEEVING
 6. IDENTIFY WITH PART NO. PER ND1002019
 7. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 8. .080/.084 DIA HOLE

| | | | | | | | | | |
|-------------|--|------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|-----------------|--|
| | | QTY REQD | | PART OR IDENTIFYING NO | | NOMENCLATURE OR DESCRIPTION | | FIN NO | |
| | | | | LIST OF MATERIALS | | | | | |
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES | | I T INS-17 INSTRUMENTATION LAB CHASSIS TEAM DWS DO CONTRACT | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 1 | | DRAWN <i>Ray</i> DATE <i>10/20/68</i> CHECKED <i>Ray</i> APPROVAL <i>Ray</i> APPROVAL <i>Ray</i> | | INSULATOR, PHOTOMASTER LOWER LEVEL A RELAY CIRCUIT, INDICATOR DRIVER | | | |
| 2003910 | | HEAT TREATMENT | | NASA APPROVAL <i>Ray</i> | | CODE IDENT NO | | NASA DRAWING NO | |
| NEXT ASSY | | USED ON | | MIT APPROVAL <i>Ray</i> | | 80230 | | 2004933 | |
| APPLICATION | | FINAL FINISH | | SCALE 4/1 | | WT | | SHEET 1 OF 1 | |



NOTES

1. MAT'L: FIM, 006/008 T-R-K SENSITIZED DIMENSIONALLY STABLE
PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A
PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF "FIN LINE"
5. BROKEN LINE DENOTES SLEEVING
6.  .040/.050 DIA HOLE
7.  .180/.190 DIA HOLE
8.  .310/.320 DIA HOLE
9.  .090/.100 DIA HOLE
10. IDENTIFY WITH DRAWING NO. & REVISION PER NIDC02019
11. APPLY FIND NO. 2 TO FAR SIDE OF FIND NO.1
12. A.R. DENOTES A.S. REQUIRE
13. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327

| | | | |
|--------------------------------------------------|---------------------------|------------------------------------------------------------------|----------------------------|
| A R | 1006318 2004934-GOI | ADHESI/E INSULATOR | 2 1 |
| QTY REQD | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | FINO NO |
| CII | LIST OF MATERIALS | | |
| M I T INSTRUMENTATION LAB CANNON AFB TEXAS | | MANNED SPACECRAFT CENTER HOUSTON TEXAS | |
| DRAWN BY <i>W. A. Rhee</i> | DATE <i>12/2/61</i> | INSULATOR, PHOTO MASTER REAR POWER SUPPLY MODULE, AGC DSKY | |
| CHECKED BY <i>W. A. Rhee</i> | DATE <i>12/2/61</i> | | |
| APPROVAL BY <i>W. A. Rhee</i> | DATE <i>12/2/61</i> | | |
| APPROVAL BY <i>W. A. Rhee</i> | DATE <i>12/2/61</i> | | |
| NASA APPROVAL <i>W. A. Rhee</i> | CODE IDENT NO 80230 | D 1 | NASA DRAWING NO 2004934 |
| MIT APPROVAL <i>W. A. Rhee</i> | SCALE 4 / 1 | W | SHEET 1 OF |

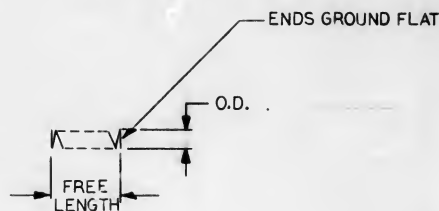
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|-------------|---------|----------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES |
| | | DO NOT SCALE THIS DRAWING MATERIAL |
| | | SEE NOTE 1 |
| 2003901 | | HEAT TREATMENT |
| NEXT ASSY | USED ON | FINAL FINISH |
| APPLICATION | | |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER. THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVERTING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

B 2004941

| REVISIONS | | | | | | |
|-----------|------|------------------------|--------|------|---------|----------|
| SYM | ZONE | DESCRIPTION | JR | CHK | DATE | APPROVED |
| A | | REVISED PER TDRR 23948 | R.D. | R.D. | 11/7/65 | R.D. |
| B | | REVISED PER TDRR 32720 | E.S.J. | W.A. | 2/8/67 | E.S.J. |

| O.D. | TO WORK IN HOLE DIA | WIRE DIA | APPROX LOAD AT SOLID HT | FREE LENGTH | RATE LBS/INCH | MAX.SOLID HEIGHT | TOTAL COILS |
|------|---------------------|----------|-------------------------|-------------|---------------|------------------|-------------|
| .245 | .300 | .016 | 1.2 LBS | .500 REF | 3 TO 3.5 | .100 | 4 TO 4 1/2 |



NOTES

1. MATL: CRES PER QQ-W-423, FORM I, COMP 302, COND B
2. PASSIVATE PER MIL-F-14072, FINISH E, 300 TYPE I
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
4. REMOVE SHARP EDGES AND BURRS
5. IDENTIFY WITH DRAWING NO. PER. ND1002019
6. NO PROJECTION OF SPRING ENDS PERMISSIBLE ON THE INSIDE OR OUTSIDE OF SPRING DIA

| | | |
|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm .005 \pm DO NOT SCALE THIS DRAWING |
| | | MATERIAL |
| 2003924 | | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|------------------------------------------------|-------------------------|-------------------------------------------------------|-----------------------------|--------------|
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>W. Brown</i> | 17MM65 | SPRING, COMPRESSION SWITCH PUSH BUTTON AGC DSKY | | |
| CHECKED <i>R. Lopez</i> | 21 May 66 | | | |
| APPROVED <i>E. P. Murray</i> | 1 June 65 | | | |
| APPROVED <i>Edna C. Hall</i> | 12 July 65 | | | |
| APPROVED MIT <i>W. C. Murphy</i> | 7-13-65 | CODE IDENT NO. SIZE 80230 C | DRAWING NO. 2004941 | |
| APPROVED MSC <i>W. J. Rhine</i> | 7-3-65 | DATE | SCALE NONE | SHEET 1 OF 1 |

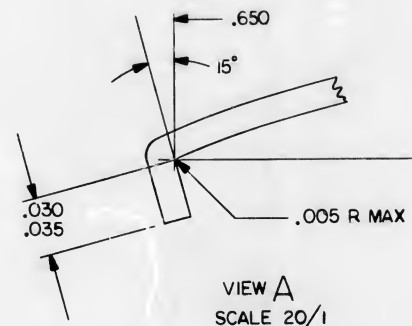
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, PREPARED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSES THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEY, IN ANY MANNER OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

2004944

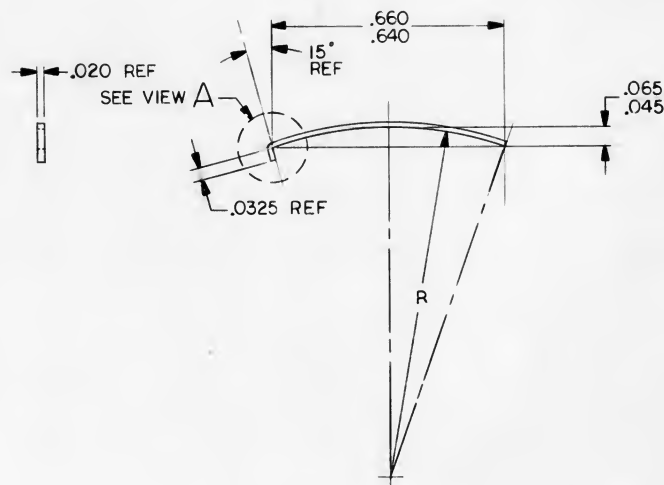
REVISIONS

20855

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|------------------------|-----|-----|----------|----------|
| A | | REVISED PER TDRR 24467 | 200 | 07 | 10/16/65 | HAL |



VIEW A
SCALE 20/1



NOTES

1. MATL:015x.020 CRES PER QQ-S-766, CLASS 301, COND. FULL HARD
2. PASSIVATE PER MIL-F-14072, FINISH E 300, TYPE I
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
4. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
5. REMOVE SHARP EDGES

| | | |
|-------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm .010 \pm 2° DO NOT SCALE THIS DRAWING |
| 2003974 | | MATERIAL |
| 2003924 | | SEE NOTE 1 |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

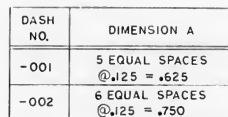
| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|---------------------------------------------|-------------------------|----------------------------------------------------------|-----------------------------|--------------|
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>W. Brown</i> | 17 MAR 66 | SPRING, CAP RETAINING SWITCH, PUSH BUTTON AGC DSKY | | |
| CHECKED <i>W. Brown</i> | 10 APR 66 | | | |
| APPROVED <i>E. J. Manning</i> | 17 JUN 66 | | | |
| APPROVED <i>E. J. Manning</i> | 2 JUL 65 | | | |
| APPROVED MIT <i>W. J. Murphy</i> | 7-17-65 | CODE IDENT NO. | SIZE | DRAWING NO. |
| APPROVED MSC <i>W. J. Murphy</i> | 7-17-65 | 80230 | C | 2004944 |
| | | DATE | SCALE 1/1 | SHEET 1 OF 1 |



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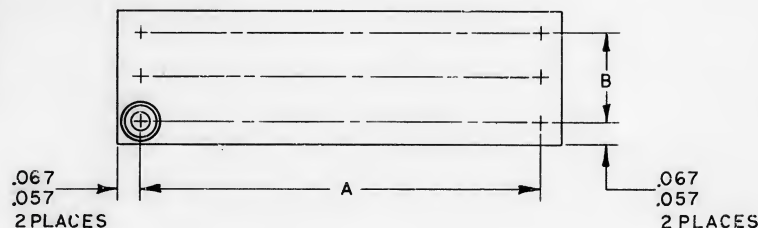
| REVISIONS | | | | | | |
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| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
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| | | QTY REQO | | PART OR IDENTIFYING NO. | | MATERIAL OR NOTES | | NOMENCLATURE OR DESCRIPTION | | FIN 179 | |
| | | LIST OF MATERIALS | | | | | | | | | |
| | | M I T INSTRUMENTATION LAB CLERMONT, MISS. | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | | |
| | | DRAWN <i>W. Angles</i> 6-60-66 CHECKED <i>Geoffrey Harrison</i> 12-11-66 APPROVED <i>W. Angles</i> 1-1-67 APPROVED <i>W. Angles</i> 1-1-67 | | | | GASKET, DIGITAL INDICATOR, AGC DSKY | | | | | |
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES <div style="display: flex; justify-content: space-around;"> + - ± </div> DO NOT SCALE THIS DRAWING | | | | | | | | | |
| | | MATERIAL | | | | | | | | | |
| 2003900 | | SEE NOTE 1 | | | | CODE IDENT NO 80230 | | SIZE D | | DRAWING NO. 2004953 | |
| NEXT ASSY USED ON | | | | | | APPROVED MIT <i>W. Angles</i> 1-1-67 | | DATE SCALE 4/1 | | SHEET 1 OF 1 | |
| APPLICATION | | | | | | | | | | | |

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|-------------|----|-----|------|----------|
| | | | | | | |

| DASH NO. | DIMENSION | |
|----------|-----------------------------|---------------------------|
| | A | B |
| -001 | 9 SPACES AT .125 =1.125 | 2 SPACES AT .125 =.250 |
| -002 | 6 SPACES AT .125 =.750 | 3 SPACES AT .125 =.375 |
| -003 | 7 SPACES AT .125 =.875 | 3 SPACES AT .125 =.375 |
| -004 | 15 SPACES AT .125 =1.875 | 3 SPACES AT .125 =.375 |
| -005 | 18 SPACES AT .125 =2.250 | 1 SPACE = .125 |
| -006 | 5 SPACES AT .125 =.625 | 1 SPACE = .125 |
| -007 | 12 SPACES AT .125 =1.500 | 6 SPACES AT .125 =.750 |
| -008 | 13 SPACES AT .125 =1.625 | 4 SPACES AT .125 =.500 |



1. MATL: MAKE FROM 1004651
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

[illegible]

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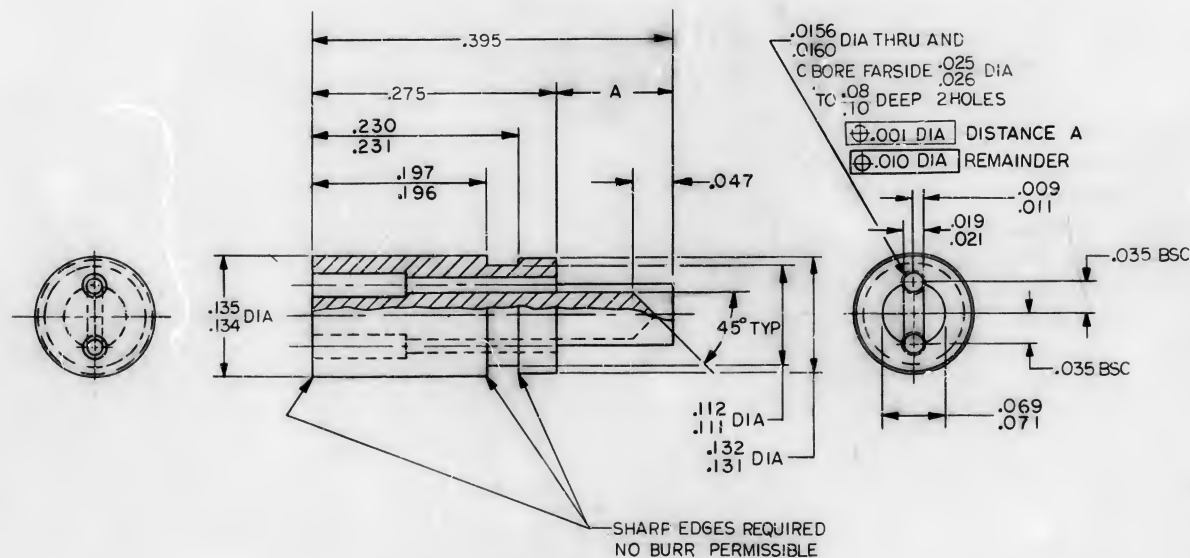
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NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY DELAYATION, INADEQUACY, EVEN, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.

REVISIONS 21877

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|-------------|----|-----|------|----------|
| | | | | | | |



NOTES

1. MATL: PLASTIC PER MIL-P-181771, TYPE GEE
2. REMOVE BURRS AND SHARP EDGES .002/.010 UNLESS OTHERWISE SPECIFIED
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
4. IDENTIFY WITH PART NO. PER ND1002019

| | | |
|-------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS FRACTIONS DECIMALS ANGLES $\pm .005 \pm 1^\circ$ DO NOT SCALE THIS DRAWING |
| | | MATERIAL |
| 2003932 | | SEE NOTE 1 |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|------------------------------------------------|----------------------------|--------------------------------------------|--------------|
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN <i>J. A. Boffini</i> | <i>2/24/65</i> | PLUG PUSH BUTTON SWITCH AGC DSKY | |
| CHECKED <i>Alger</i> | <i>2/24/65</i> | | |
| APPROVED <i>E. J. Murray</i> | <i>2/24/65</i> | | |
| APPROVED <i>Edna C. Hall</i> | <i>2/24/65</i> | | |
| APPROVED <i>W. K. Taylor</i> | <i>2/24/65</i> | CODE IDENT NO. | DRAWING NO. |
| APPROVED <i>MSC</i> | <i>2/24/65</i> | 80230 | 2004963 |
| | DATE | SCALE 10/1 | SHEET 1 OF 1 |

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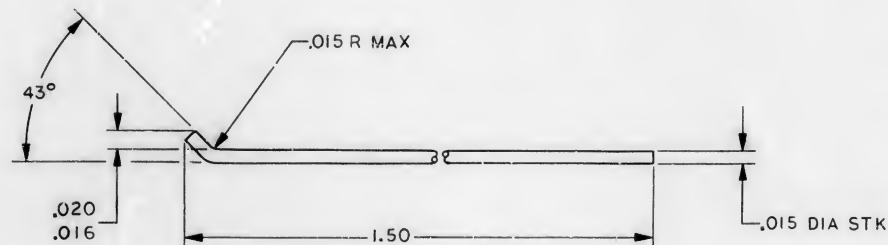
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NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, NOR DOES THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWING, SPECIFICATION, OR OTHER DATA IN ANY MANNER BE RECONSIDERED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER ENDORSEMENT OR PERSUASION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 21677

| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
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NOTES

1. MATL: COPPER BERYLLIUM PER QQ-C-530, COND 1/2 H
2. GOLD PLATE PER MIL-G-45204, TYPE II, CLASS 2
3. REMOVE BURRS AND SHARP EDGES
4. IDENTIFY WITH PART NO. PER ND1002019
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|---------------------------------------------|-------------------------|------------------------------------------------------|-----------------------------|-------------|
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>K. L. Simpson</i> | 15 JUL 65 | WIRE, PLUG CONTACT PUSH BUTTON SWITCH AGC DSKY | | |
| CHECKED <i>E. J. Simpson</i> | 15 JUL 65 | | | |
| APPROVED <i>E. J. Simpson</i> | 15 JUL 65 | | | |
| APPROVED <i>E. J. Simpson</i> | 15 JUL 65 | | | |
| APPROVED MIT | DATE | CGJE IDENT NO. | SIZE | DRAWING NO. |
| APPROVED MSC | DATE | 80230 | C | 2004966 |
| SCALE 10/1 | | SHEET 1 OF 1 | | |

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| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES $\pm .03$ $\pm 2^\circ$ DO NOT SCALE THIS DRAWING | |
| MATERIAL | |
| SEE NOTE 1 | |
| 2003932 | |
| NEXT ASSY | USED ON |
| APPLICATION | |

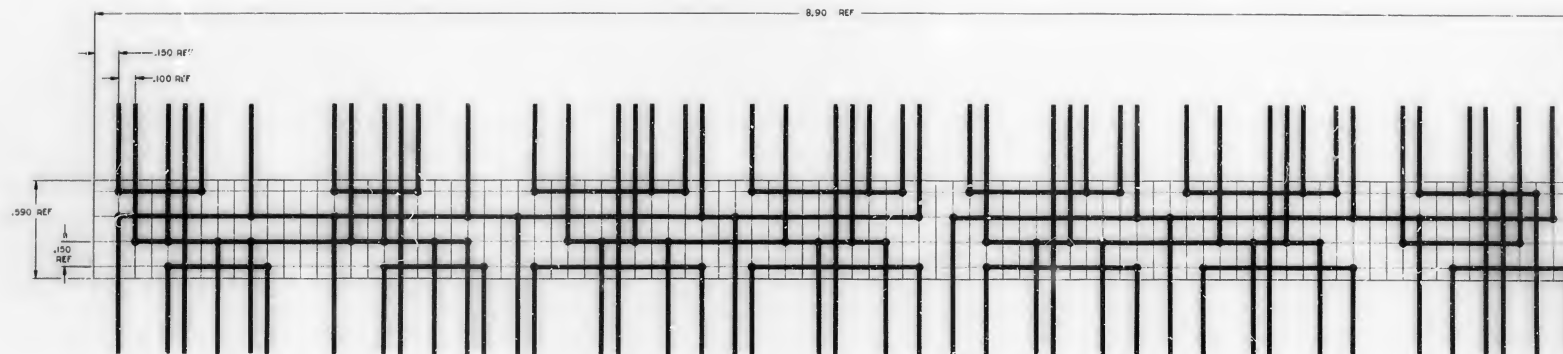
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| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED | |
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1. MATL: 5052-H32-AL PER QQ-A-250/8
2. SURFACE QUALITY ⁶³/₃
3. REMOVE ALL BURRS & SHARP EDGES
4. CHROMATE PER MIL-C-5541, TYPE II, CLASS 3, GRADE C
5. IDENTIFY WITH PART NO. PER NDI002019
6. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327

SEE NOTE 1

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| NEXT ASSY | USED ON |
| APPLICATION | |

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| QTY REQD | PART OF: IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | | FIN NO |
| LIST OF MATERIALS | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>R.O. Zink</i> | <i>10 FEB 66</i> | WASHER, FLAT | | | |
| CHECKED <i>(Signature)</i> | <i>11 FEB 66</i> | | | | |
| APPROVED <i>(Signature)</i> | <i>11 FEB 66</i> | | | | |
| APPROVED <i>(Signature)</i> | <i>11 FEB 66</i> | | | | |
| APPROVED MIT | <i>(Signature)</i> <i>A. C. METZGER</i> | CODE / PART NO. | SIZE | DRAWING NO. | |
| APPROVED MSC | DATE | SCALE | NONE | 2004984 | |
| | | | | SHEET | OF |



NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2005013

| REV. | DATE | BY | CHKD. | APP'D. |
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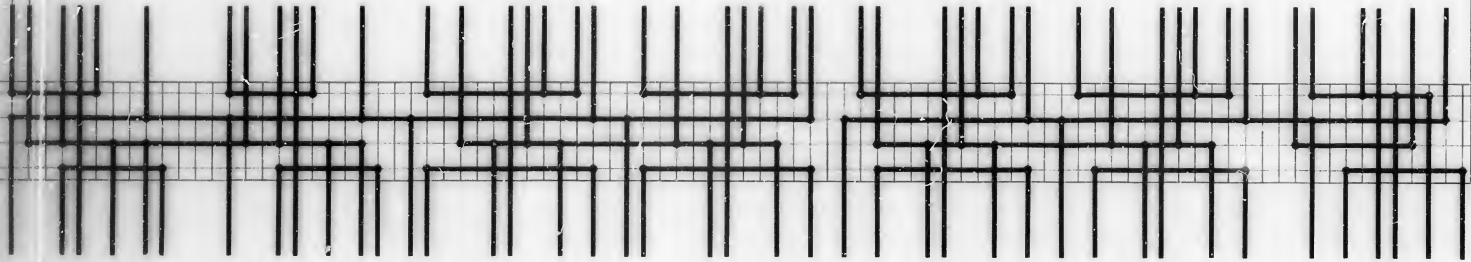
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| 1 | 10/1/68 | 2 | 10/1/68 | 3 | 10/1/68 |

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STANDARDS DESCRIBED BY MIL-D-70327

2005013

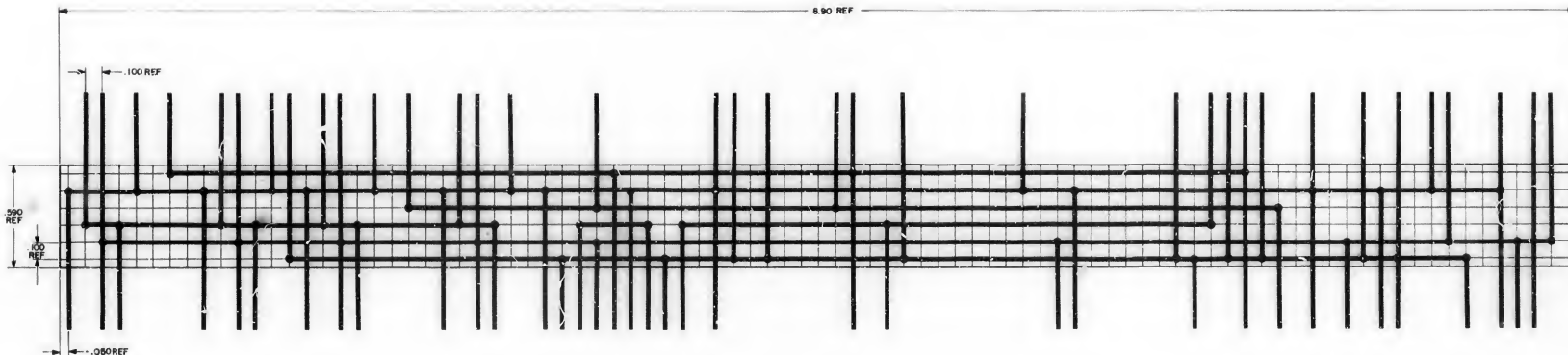
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| QTY REQD | PART OR IDENTIFYING NO. | NAME/LOCATION OF DESCRIPTION | REV NO. |
| MIT INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DRAWN: <i>[Signature]</i> 10/1/68 CHECKED: <i>[Signature]</i> 10/1/68 APPROVED: <i>[Signature]</i> 10/1/68 | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN P.F. RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES F F F DO NOT SCALE THIS DRAWING | | | |
| WIRING DIAGRAM CURRENT SWITCH MATRIX | | | |
| 2005031 NEXT ASSY USED ON APPLICATION | | DATE DREW AND BY J 2005013 | DATE 10/1/68 |

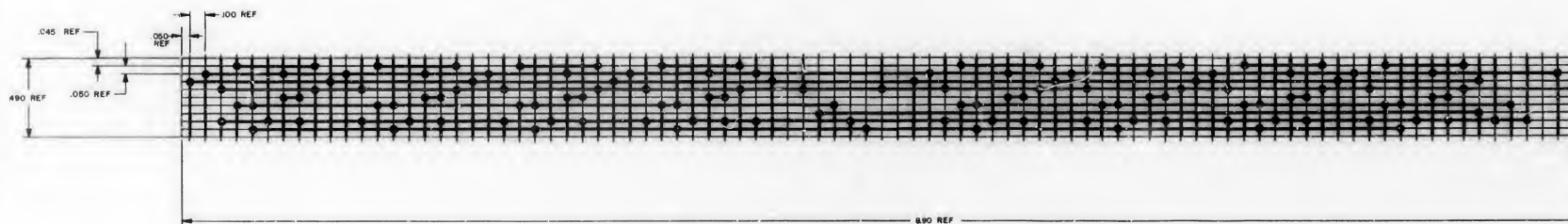
2005013



NOTE: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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| QTY REQD | | PART OR IDENTIFYING NO | | HUMAN-LABELING OR DESCRIPTION | | FORM NO | |
| LIST OF MATERIALS | | | | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DRAWN BY <i>[Signature]</i> <i>[Signature]</i> | | | | CHECKED BY <i>[Signature]</i> <i>[Signature]</i> | | | |
| APPROVED BY <i>[Signature]</i> <i>[Signature]</i> | | | | APPROVED BY <i>[Signature]</i> <i>[Signature]</i> | | | |
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| 2003042 | | | | 80230 E | | | |
| NEXT ASBY | | | | USED ON | | | |
| APPLICATION | | | | APPLICATION | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES APPROXIMATE DO NOT SCALE THIS DRAWING | | | | WIRING DIAGRAM ROPE DRIVER MODULE | | | |
| MATERIAL | | | | DRAWING NO 2005C14 | | | |
| APPROVED BY <i>[Signature]</i> <i>[Signature]</i> | | | | DATE 8/1 | | | |
| APPROVED BY <i>[Signature]</i> <i>[Signature]</i> | | | | DATE 8/1 | | | |

A



REF: MATRIX ASSY,SENSE AMPLIFIER MODULE 200304

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327

[illegible]

| | | | |
|-----------------|------------------------|--------|-------------|
| REVISIONS 19215 | | | |
| BY | DESCRIPTION | DATE | APPROVED BY |
| A | REVISED PER TDNR 20092 | 1/2/11 | TDNR |

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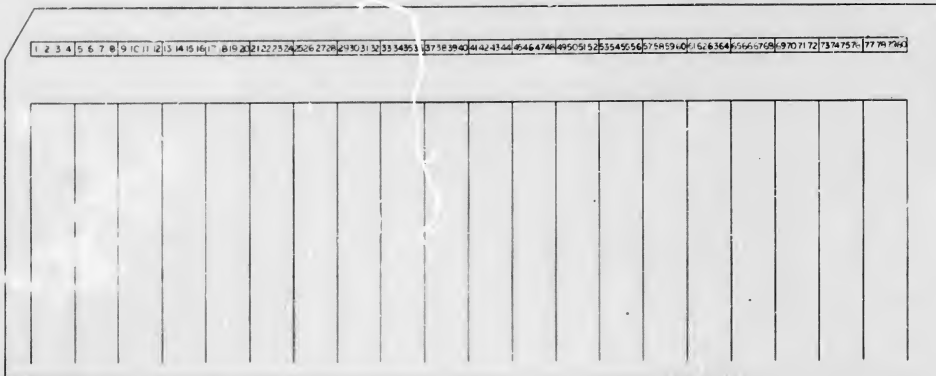
2005016

REF: MATRIX ASSY, SENSE AMPLIFIER MODULE 2003005

[illegible][illegible]

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| REV | ZONE | DESCRIPTION | REVISIONS 2448 | | | |
|-----|------|------------------------|----------------|-----|--------|----------|
| | | | BY | CHK | DATE | APPROVED |
| A | | REVISED PER TDOR 24941 | 95 | | 9/1/95 | |
| B | | REVISED PER TDOR 25424 | 95 | | 9/1/95 | |
| C | | REVISED PER TDOR 25914 | 95 | | 9/1/95 | |
| D | | REVISED PER TDOR 26860 | 95 | | 9/1/95 | |
| E | | REVISED PER TDOR 27077 | 95 | | 9/1/95 | |

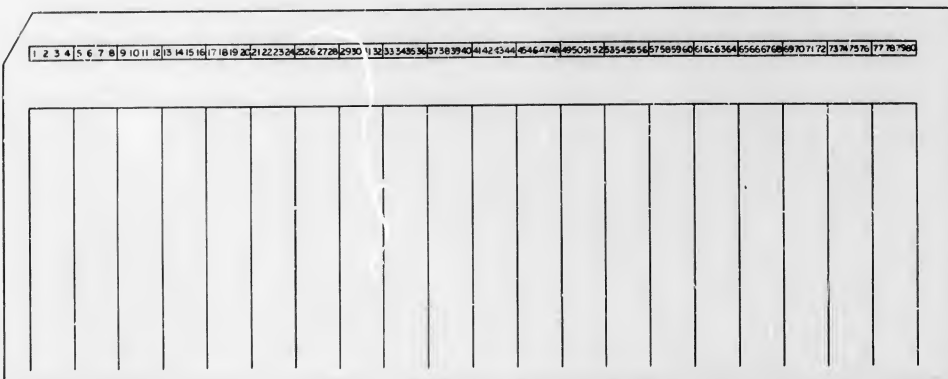


- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - CARD COLUMNS USAGE
 - 2 - 7 CARD SEQUENCE NUMBER, IN DECIMAL
 - 8 - 22 BINARY MACHINE DATA, IN THE FORMAT DESCRIBED BY A GARDNER-DENVER CO DRAWING NUMBER 800384, REVISION A, FOR THEIR MODEL 14F-22X22X025 WIRE WRAP MACHINE
 - 23 - 33 SIGNAL NAME
 - 34 - 35 WIRE NUMBER IN CHAIN FOR SIGNAL
 - 36 - 42 NAME OF PIN WRAPPED BY A TOOL
 - 43 - 49 NAME OF PIN WRAPPED BY B TOOL
 - 50 WIRE PATTERN CODE NUMBER
 - 51 TABLE ROTATIONAL POSITION
 - 52 PALLET LONGITUDINAL POSITION
 - 53 A TOOL Z LEVEL
 - 54 B TOOL Z LEVEL
 - 55 - 57 A TOOL X, IN DECIMAL
 - 58 - 60 Y1, IN DECIMAL
 - 61 - 63 B TOOL X, IN DECIMAL
 - 64 - 66 Y2, IN DECIMAL
 - 67 - 69 Y3, IN DECIMAL
 - 70 - 72 Y4, IN DECIMAL
 - 73 - 79 NASA DRAWING NUMBER

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|-------------------------------------------|------------------------|------------------------------------------------------------------|---------|
| QTY REQ | PART OR IDENTIFYING NO | NAME/CLATURE OR DESCRIPTION | UNIT NO |
| MIT INSTRUMENTATION LAB CAMBRIDGE MASS | | LIST OF MATERIALS MA'INED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN: <i>Adrian J. Hester</i> | | WIREWRAP CARD-DECK TRAY A | |
| CHECKED: <i>R.P. Hester</i> | | CODE IDENT NO 80230 | |
| APPROVED: <i>Edgar C. Hester</i> | | SIZE D | |
| APPROVED: <i>W. Hester</i> | | DRAWING NO 2005033 | |
| APPROVED: <i>MSC</i> | | DATE SCALE SHEET 1 OF 1 | |

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|--------|--|-----------------------|-----|-----|--------|----------|
| A | | REVISED PER TDR 24942 | | | | |
| B | | REVISED PER TDR 25010 | RCA | ONE | 2/2/64 | ONE |
| C | | REVISED PER TDR 25423 | RCA | ONE | 2/2/64 | ONE |



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. CARD COLUMNS USAGE

| | |
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| 2 - 7 | CARD SEQUENCE NUMBER, IN DECIMAL |
| 9 - 22 | BINARY MACHINE DATA, IN THE FORMAT DESCRIBED BY A GARDNER-DENVER CO. DRAWING NUMBER 800384, REVISION A, FOR THEIR MODEL 14F-22X22X.025 WIRE WRAP MACHINE |
| 23 - 33 | SIGNAL NAME |
| 34 - 35 | WIRE NUMBER IN CHAIN FOR SIGNAL |
| 36 - 42 | NAME OF PIN WRAPPED BY A TOOL |
| 43 - 49 | NAME OF PIN WRAPPED BY B TOOL |
| 50 | WIRE PATTERN CODE NUMBER |
| 51 | TABLE ROTATIONAL POSITION |
| 52 | PALLET LONGITUDINAL POSITION |
| 53 | A TOOL Z LEVEL |
| 54 | B TOOL Z LEVEL |
| 55 - 57 | A TOOL X _i IN DECIMAL |
| 58 - 60 | Y _i IN DECIMAL |
| 61 - 63 | B TOOL X _i IN DECIMAL |
| 64 - 66 | Y ₂ IN DECIMAL |
| 67 - 69 | Y ₃ IN DECIMAL |
| 70 - 72 | Y ₄ IN DECIMAL |
| 73 - 79 | NASA DRAWING NUMBER |

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| QTY REQD | | PART OR IDENTIFYING NO. | | NOMENCLATURE OR DESCRIPTION | | PND NO. | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS | | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| DRAWN: <i>W. J. [signature]</i> | | | | WIREWRAP CARD-DECK TRAY B | | | |
| CHECKED: <i>R. [signature]</i> | | | | CODE IDENT NO. 80230 | | | |
| APPROVED: <i>[signature]</i> | | | | SIZE D | | | |
| DO NOT SCALE THIS DRAWING | | | | DRAWING NO. 2005034 | | | |
| MATERIAL | | | | DATE | | | |
| 2003075 | | NEXT ASSY | | USED ON | | APPLICATION | |

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REVISIONS

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| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED |
|-----|------|------------------------|--------|-----|-----------|----------|
| A | | REVISED PER TDRR 25019 | L.T.B. | EXE | 5 JAN 66 | WR |
| B | | REVISED PER TDRR 25418 | EB | EXE | 21 JAN 66 | WR |
| C | | REVISED PER TDRR 25913 | LAL | EXE | 1 FEB 66 | WR |
| D | | REVISED PER TDRR 26868 | LAL | EXE | 1 FEB 66 | WR |
| E | | REVISED PER TDRR 27078 | DRS | DM | 3 FEB 66 | WR |

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NOTES

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REF DWG: 2003100 (AGC ASSEMBLY)

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| QTY REQD | PART OR IDENTIFYING NO. | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIG. NO. |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>E. Williams</i> <i>2/2/66</i> | | AGC WIRELIST | | |
| CHECKED <i>E. Williams</i> <i>2/2/66</i> | | | | |
| APPROVED <i>E. Williams</i> <i>2/2/66</i> | | | | |
| APPROVED MIT <i>W. J. Miller</i> <i>3/1/66</i> | | CODE IDENT NO. | SIZE | DRAWING NO. |
| APPROVED MSC <i>A. C. Metzger</i> | | 80230 | C | 2005035 |
| DATE | | SCALE | SHEET 1 OF 1 | |

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| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING | |
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| APPLICATION | |

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| REVISIONS 25981 | | | | | | | | | |
|-----------------|------|------------------------|--|--|--|----------|------|------|------------|
| SYM | ZONE | DESCRIPTION | | | | DR | CHK | DATE | APPROVED |
| — | | RELEASED PER TDRR | | | | | | | |
| A | | REVISED PER TDRR 28865 | | | | 22/11/66 | C.D. | | FK 1/10/66 |

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NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL -D-70327

REF DWG: 2003200 (AGC ASSEMBLY)

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| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN <i>Ben G. Kelly</i> 7 Feb 66 | | AGC WIRELIST | |
| CHECKED <i>A. C. Metzler</i> 7 Feb 66 | | | |
| APPROVED <i>[Signature]</i> | | | |
| APPROVED <i>Edgar C. Hall</i> 9 Feb 66 | | | |
| APPROVED MIT | <i>[Signature]</i> 8 Feb 66 | CODE IDENT NO. | SIZE |
| APPROVED MSC | A. C. METZLER | 80230 | C |
| DATE | | SCALE | DRAWING NO. 2005036 |
| APPLICATION | | SHEET 1 OF 1 | |

2005036

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| REVIEWS | | 25981 | |
| SYM | ZONE | DESCRIPTION | DATE |
| A | | CHANGED PER DRA 29704 | 16 |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

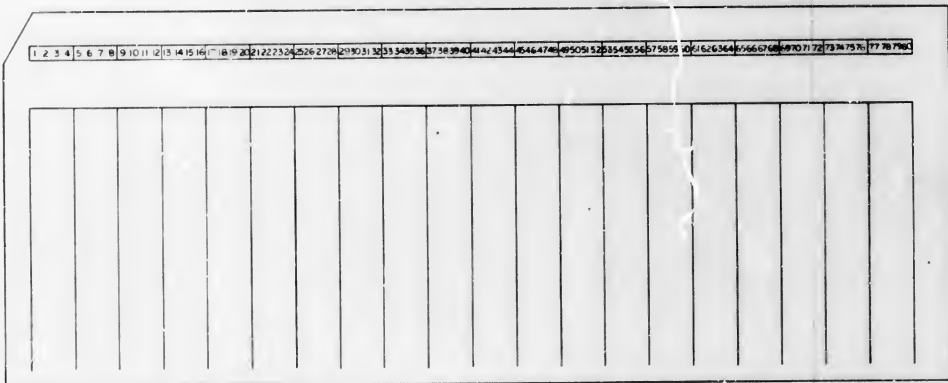
NOTES:
1 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2 CARD COLUMNS USAGE

- | | |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 - 7 | CARD SEQUENCE NUMBER, IN DECIMAL |
| 9 - 22 | BINARY MACHINE DATA, IN THE FORMAT DESCRIBED BY A GARDNER-DENVER CO. DRAWING NUMBER 800384, REVISION A, FOR THEIR MODEL 14F-22X22X.025 WIRE WRAP MACHINE |
| 27 - 33 | SIGNAL NAME |
| 34 - 38 | WIRE NUMBER IN CHAIN FOR SIGNAL |
| 39 - 42 | NAME OF PIN WRAPPED BY A TOOL |
| 43 - 49 | NAME OF PIN WRAPPED BY B TOOL |
| 50 | WIRE PATTERN CODE NUMBER |
| 51 | TABLE ROTATIONAL POSITION |
| ~2 | TABLE LONGITUDINAL POSITION |
| 53 | A TOOL Z LEVEL |
| 54 | B TOOL Z LEVEL |
| 55 - 57 | A TOOL X, IN DECIMAL |
| 58 - 60 | Y1, IN DECIMAL |
| 61 - 63 | B TOOL X, IN DECIMAL |
| 64 - 66 | Y2, IN DECIMAL |
| 67 - 69 | Y3, IN DECIMAL |
| 70 - 72 | Y4, IN DECIMAL |
| 74 - 79 | NASA DRAWING NUMBER |

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|-----------------------------------------------|----------------------------|--------------------------------------------|--|-------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | | FINI NO. |
| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN <i>Ken Glogowski</i> | | WIREWRAP CARD-DECK TRAY A | | |
| CHECKED <i>A. C. Metzger</i> | | CODE IDENT NO. 80230 | | |
| APPROVED <i>Edison Chell</i> | | SIZE D | | |
| 2003092 | | DRAWING NO. 2005037 | | |
| NEXT ASSY | | DATE | | |
| USED ON | | SCALE | | |
| APPLICATION | | SHEET 1 OF 1 | | |

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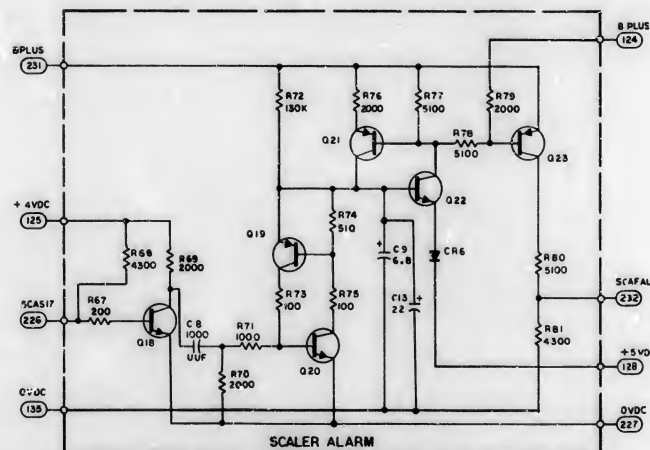
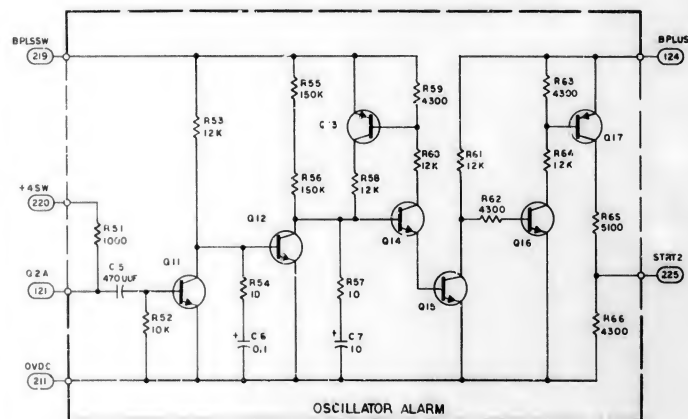
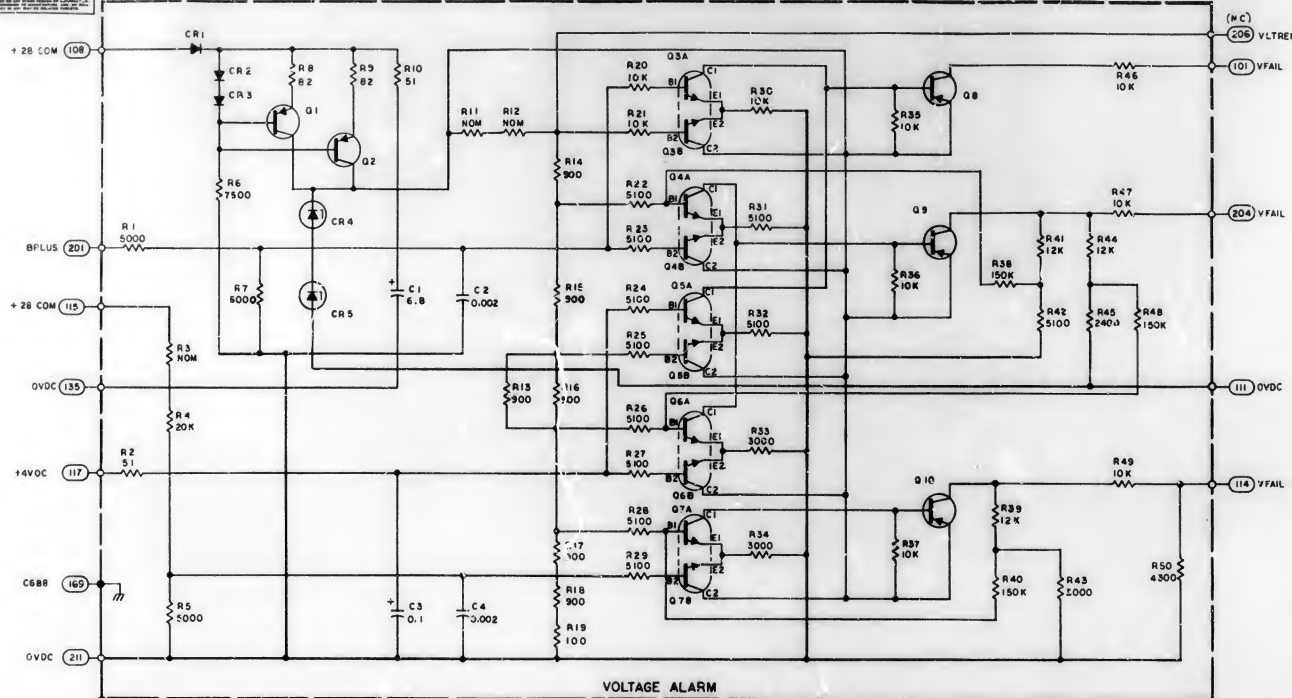
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| A | | | | RELEASED PER TORR | | | | | |
| | | | | REVISED PER TORR 28866 | | | | | |



- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. CARD COLUMNS USAGE
- | | |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 - 7 | CARD SEQUENCE NUMBER, IN DECIMAL |
| 9 - 22 | BINARY MACHINE DATA, IN THE FORMAT DESCRIBED BY A GARDNER-DENVER CO DRAWING NUMBER 800384, REVISION A, FOR THEIR MODEL 14F-22X22X025 WIRE WRAP MACHINE |
| 23 - 33 | SIGNAL NAME |
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| 64 - 66 | Y2, IN DECIMAL |
| 67 - 69 | Y3, IN DECIMAL |
| 70 - 72 | Y4, IN DECIMAL |
| 73 - 79 | NASA DRAWING NUMBER |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------|---------|
| QTY REQD | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | FIND NO |
| | | | |
| LIST OF MATERIALS | | | |
| INSTRUMENTATION LAB CAMBRIDGE MASS DRAWN BY <i>W. J. Miller</i> CHECKED BY <i>W. J. Miller</i> APPROVED BY <i>W. J. Miller</i> DO NOT SCALE THIS DRAWING | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS WIREWRAP CARD-DECK TRAY B | |
| MATERIAL 2003093 NEXT ASSY USED ON APPLICATION | | CODE IDENT NO 80230 SIZE D DRAWING NO 2005038 | |
| APPROVED BY <i>W. J. Miller</i> | | DATE | |
| APPROVED BY <i>W. J. Miller</i> | | SCALE | |
| APPROVED BY <i>W. J. Miller</i> | | SHEET 1 OF 1 | |

2005038 A

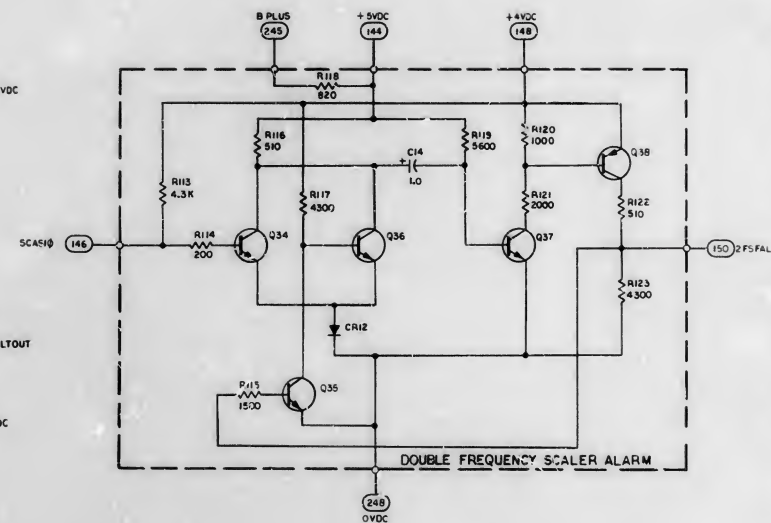
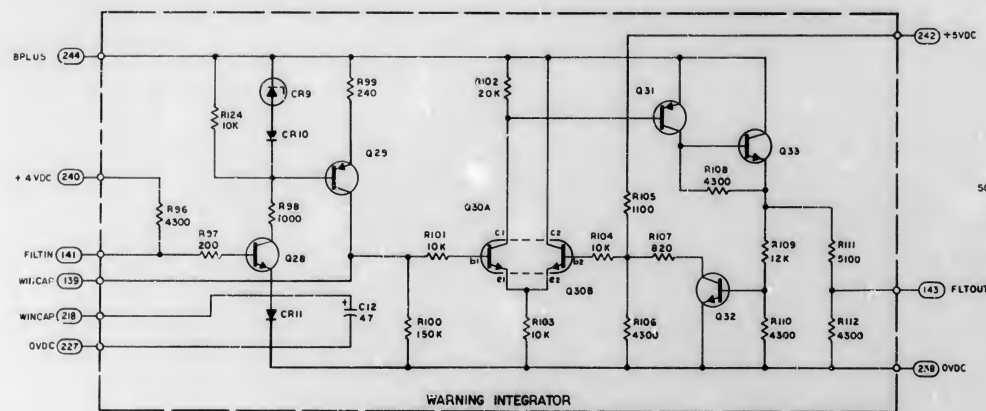
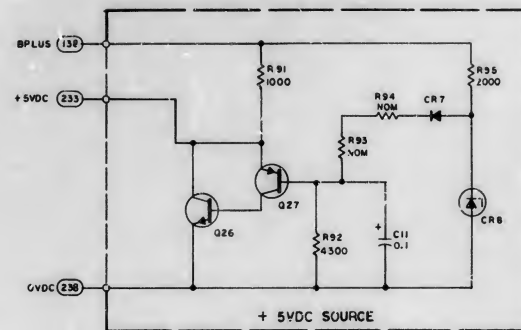
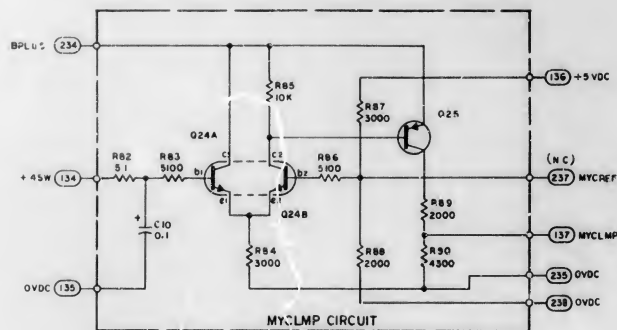


NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-O-70327
2. SELECT R3, R11, R12, R93, R94 PER APPLICABLE PS FROM APPROPRIATE CHART

REF DWG:
ALARM MODULE ASSY
DWG NO. 2003983

| | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAP. YOUR VALUES ARE IN ALL FEEDBACK VALUES ARE IN OHMS TOLERANCES: 1% RESISTOR DECIMALS ARE IN 100K 10K 1K 100 10 1 0.1 0.01 DO NOT SCALE THIS CIRCUIT | | SET PART OF EVERYTHING NO. | | REGISTRATION OR DESCRIPTION | |
| NEXT TEST USED ON APPLICATION | | LET OF WIRELESS INSTRUMENTATION 1-7 DRAWING NO. 2005922 DRAWN BY: <i>W. J. Williams</i> SCHEMATIC CHECKED BY: <i>W. J. Williams</i> ALARM B8 APPROVED BY: <i>W. J. Williams</i> | | MAINTAINED SPECIFICATION CENTER INVENTOR: TERRY | |
| | | APPROVED BY: <i>W. J. Williams</i> DATE: <i>10/23/02</i> REV: <i>1</i> | | CODE IDENT NO. 80230 SERIAL NO. E DRAWING NO. 2005922 SCALE 1:1 CHECKED BY: <i>W. J. Williams</i> | |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|--------------------|--|
| 3 1 2 3 | | 4 1 2 3 | | 5 1 2 3 | | 6 1 2 3 | | 7 1 2 3 | | 8 1 2 3 | | 9 1 2 3 | | 10 1 2 3 | | 11 1 2 3 | | 12 1 2 3 | | 13 1 2 3 | | 14 1 2 3 | | 15 1 2 3 | | 16 1 2 3 | | 17 1 2 3 | | 18 1 2 3 | | 19 1 2 3 | | 20 1 2 3 | | 21 1 2 3 | | 22 1 2 3 | | 23 1 2 3 | | 24 1 2 3 | | 25 1 2 3 | | 26 1 2 3 | | 27 1 2 3 | | 28 1 2 3 | | 29 1 2 3 | | 30 1 2 3 | | 31 1 2 3 | | 32 1 2 3 | | 33 1 2 3 | | 34 1 2 3 | | 35 1 2 3 | | 36 1 2 3 | | 37 1 2 3 | | 38 1 2 3 | | 39 1 2 3 | | 40 1 2 3 | | 41 1 2 3 | | 42 1 2 3 | | 43 1 2 3 | | 44 1 2 3 | | 45 1 2 3 | | 46 1 2 3 | | 47 1 2 3 | | 48 1 2 3 | | 49 1 2 3 | | 50 1 2 3 | | 51 1 2 3 | | 52 1 2 3 | | 53 1 2 3 | | 54 1 2 3 | | 55 1 2 3 | | 56 1 2 3 | | 57 1 2 3 | | 58 1 2 3 | | 59 1 2 3 | | 60 1 2 3 | | 61 1 2 3 | | 62 1 2 3 | | 63 1 2 3 | | 64 1 2 3 | | 65 1 2 3 | | 66 1 2 3 | | 67 1 2 3 | | 68 1 2 3 | | 69 1 2 3 | | 70 1 2 3 | | 71 1 2 3 | | 72 1 2 3 | | 73 1 2 3 | | 74 1 2 3 | | 75 1 2 3 | | 76 1 2 3 | | 77 1 2 3 | | 78 1 2 3 | | 79 1 2 3 | | 80 1 2 3 | | 81 1 2 3 | | 82 1 2 3 | | 83 1 2 3 | | 84 1 2 3 | | 85 1 2 3 | | 86 1 2 3 | | 87 1 2 3 | | 88 1 2 3 | | 89 1 2 3 | | 90 1 2 3 | | 91 1 2 3 | | 92 1 2 3 | | 93 1 2 3 | | 94 1 2 3 | | 95 1 2 3 | | 96 1 2 3 | | 97 1 2 3 | | 98 1 2 3 | | 99 1 2 3 | | 100 1 2 3 | |
|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|--------------------|--|

| REF | DES | PR. NO. | DESCRIPTION | VALUE | TOL | RATING |
|------|-----|---------------|-------------|--------|-------|--------|
| R1 | | 1010377 - 51 | RESISTOR | 5000 | ± 10% | 1/10 W |
| R2 | | 1006750 - 1 | | 50 | ± 2% | 1/4 W |
| R3 | | SEE NOTE 2 | | NOM | — | 1/4 W |
| R4 | | 1010377 - 30 | | 2.0K | ± 10% | 1/10 W |
| R5 | | 1010377 - 51 | | 5000 | ± 10% | 1/10 W |
| R6 | | 1006750 - 83 | | 7500 | ± 2% | 1/4 W |
| R7 | | 1010377 - 31 | | 5000 | ± 10% | 1/10 W |
| R8 | | 1006750 - 6 | | 82 | ± 2% | 1/4 W |
| R9 | | 1006750 - 6 | | 82 | ± 2% | 1/4 W |
| R10 | | 1006750 - 1 | | 10K | ± 2% | 1/4 W |
| R11 | | SEE NOTE 2 | | NOM | — | 1/4 W |
| R12 | | SEE NOTE 2 | | NOM | — | 1/4 W |
| R13 | | 1010377 - 227 | | 900 | ± 2% | 1/10 W |
| R14 | | — 227 | | 900 | | |
| R15 | | — 227 | | 900 | | |
| R16 | | — 227 | | 900 | | |
| R17 | | — 227 | | 900 | | |
| R18 | | 1010377 - 227 | | 900 | ± 10% | 1/10 W |
| R19 | | 1006750 - 6 | | 10K | ± 2% | 1/4 W |
| R20 | | — | | 10K | | |
| R21 | | — 56 | | 10K | | |
| R22 | | — 49 | | 5100 | | |
| R23 | | — 49 | | 5100 | | |
| R24 | | — 49 | | 5100 | | |
| R25 | | — 49 | | 5100 | | |
| R26 | | — 49 | | 5100 | | |
| R27 | | — 49 | | 1100 | | |
| R28 | | — 49 | | 5100 | | |
| R29 | | — 49 | | 5100 | | |
| R30 | | — 56 | | 0.0K | | |
| R31 | | — 49 | | 100 | | |
| R32 | | 1010377 - 30 | | 2.0K | | |
| R33 | | — 43 | | 5000 | | |
| R34 | | — 43 | | 5000 | | |
| R35 | | — 56 | | 10K | | |
| R36 | | — 56 | | 10K | | |
| R37 | | — 56 | | 10K | | |
| R38 | | — 56 | | 10K | | |
| R39 | | — 50 | | 12K | | |
| R40 | | — 04 | | 150K | | |
| R41 | | — 50 | | 12K | | |
| R42 | | — 43 | | 5100 | | |
| R43 | | — 43 | | 3000 | | |
| R44 | | — 50 | | 12K | | |
| R45 | | — 41 | | 2400 | | |
| R46 | | — 56 | | 10K | | |
| R47 | | — 56 | | 10K | | |
| R48 | | — 34 | | 150K | | |
| R49 | | — 56 | | 10K | | |
| R50 | | — 47 | | 4300 | | |
| R51 | | 1006750 - 52 | | 10K | | |
| R52 | | — 56 | | 10K | | |
| R53 | | 1006750 - 58 | | 12K | ± 2% | |
| R54 | | 1006750 - 52 | | 10K | ± 1% | |
| R55 | | 1006750 - 84 | | 150K | ± 2% | |
| R56 | | 1006750 - 84 | | 150K | ± 2% | |
| R57 | | 1006750 - 58 | | 12K | ± 1% | |
| R58 | | 1006750 - 58 | | 12K | ± 2% | |
| R59 | | — 47 | | 4300 | | |
| R60 | | — 47 | | 12K | | |
| R61 | | — 47 | | 12K | | |
| R62 | | — 47 | | 4300 | | |
| R63 | | — 47 | | 4300 | | |
| R64 | | — 49 | | 12K | | |
| R65 | | — 39 | | 5100 | | |
| R66 | | — 47 | | 4300 | | |
| R67 | | — 18 | | 4300 | | |
| R68 | | — 49 | | 4900 | | |
| R69 | | — 39 | | 2000 | | |
| R70 | | — 39 | | 2000 | | |
| R71 | | — 23 | | 1000 | | |
| R72 | | — 83 | | 130K | | |
| R73 | | — 05 | | 100 | | |
| R74 | | — 25 | | 510 | | |
| R75 | | — 49 | | 100 | | |
| R76 | | — 39 | | 2000 | | |
| R77 | | — 49 | | 5100 | | |
| R78 | | — 49 | | 5100 | | |
| R79 | | — 39 | | 2000 | | |
| R80 | | — 49 | | 5100 | | |
| R81 | | — 47 | | 4300 | | |
| R82 | | — 47 | | 5100 | | |
| R83 | | — 43 | | 5100 | | |
| R84 | | — 43 | | 3000 | | |
| R85 | | — 50 | | 12K | | |
| R86 | | — 49 | | 5100 | | |
| R87 | | — 43 | | 3000 | | |
| R88 | | — 39 | | 2000 | | |
| R89 | | — 39 | | 2000 | | |
| R90 | | — 47 | | 4300 | | |
| R91 | | — 52 | | 1000 | | |
| R92 | | 1006750 - 59 | | 4300 | ± 2% | 1/4 W |
| R93 | | SFE R2E 2 | | NOM | — | 1/4 W |
| R94 | | SEE NOTE 2 | | NOM | — | 1/4 W |
| R95 | | 1006750 - 59 | | 2100 | ± 2% | 1/4 W |
| R96 | | — 17 | | 4000 | | |
| R97 | | — 15 | | 200 | | |
| R98 | | — 32 | | 1000 | | |
| R99 | | — 17 | | 240 | | |
| R100 | | — 64 | | 180K | | |
| R101 | | — 36 | | 10K | | |
| R102 | | — 63 | | 20K | | |
| R103 | | — 56 | | NOTE 1 | | |
| R104 | | — 36 | | 10K | | |
| R105 | | — 33 | | 1100 | | |
| R106 | | — 47 | | 4300 | | |
| R107 | | — 30 | | 8200 | | |
| R108 | | — 47 | | 4300 | | |
| R109 | | — 58 | | 12K | | |
| R110 | | — 47 | | 4300 | | |
| R111 | | — 46 | | 5100 | | |
| R112 | | 1006750 - 47 | RESISTOR | 4300 | ± 2% | 1/4 W |

| REF DES | PART NO | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-------------|---------|-------|--------|
| C1 | 100677-183 | CAPACITOR | 5.8 | ±0.0% | 50 VDC |
| C2 | 1006777-25 | | .002 | ±0.0% | 35 |
| C3 | 1006755-57 | | 0.1 | ±0.0% | 50 |
| C4 | 1006777-25 | | .002 | ±0.0% | 50 |
| C5 | 1006777-24 | | 470 UHF | ±0.0% | 100 |
| C6 | 1006755-57 | | 0.1 | ±0.0% | 35 |
| C7 | 1006755-57 | | 10 | ±0.0% | 50 |
| C8 | 1006777-24 | | 1000UHF | ±0.0% | 50 |
| C9 | 1006755-79 | | 6.8 | ±0.0% | 35 |
| C10 | 1006755-57 | | 0.1 | ±0.0% | 50 |
| C11 | 1006755-57 | | 0.1 | ±0.0% | 35 |
| C12 | 1006755-36 | CAPACITOR | 4.7 | ±0.0% | 50 VDC |
| CR1 | 2004103-001 | DIODE | | | |
| CR2 | 2004103-001 | | | | |
| CR3 | 2004103-001 | | | | |
| CR4 | 2004112-002 | | | | |
| CR5 | 2004112-002 | | | | |
| CR6 | 2004103-001 | | | | |
| CR7 | 2004103-001 | | | | |
| CR8 | 2004112-002 | | | | |
| CR9 | 2004112-002 | | | | |
| CR10 | 2004103-001 | | | | |
| CR11 | 2004103-001 | | | | |
| CR12 | 2004103-001 | DIODE | | | |
| Q1 | 2004004-002 | TRANSISTOR | | | |
| Q2 | 2004004-002 | | | | |
| Q3 | 1010376-1 | | | | |
| Q4 | - | - | | | |
| Q5 | - | - | | | |
| Q6 | - | - | | | |
| Q7 | 1010376-1 | | | | |
| Q8 | 2004004-002 | | | | |
| Q9 | - | - | | | |
| Q10 | - | - | | | |
| Q11 | - | - | | | |
| Q12 | - | - | | | |
| Q13 | - | - | | | |
| Q14 | - | - | | | |
| Q15 | - | - | | | |
| Q16 | - | - | | | |
| Q17 | - | - | | | |
| Q18 | - | - | | | |
| Q19 | - | - | | | |
| Q20 | - | - | | | |
| Q21 | - | - | | | |
| Q22 | - | - | | | |
| Q23 | 2004004-002 | | | | |
| Q24 | 1010376-1 | | | | |
| Q25 | 2004004-002 | | | | |
| Q26 | - | - | | | |
| Q27 | - | - | | | |
| Q28 | - | - | | | |
| Q29 | 2004004-002 | | | | |
| Q30 | 1010376-1 | | | | |
| Q31 | 2004004-002 | | | | |
| Q32 | - | - | | | |
| Q33 | - | - | | | |
| Q34 | - | - | | | |
| Q35 | - | - | | | |
| Q36 | - | - | | | |
| Q37 | - | - | | | |
| Q38 | 2004004-002 | TRANSISTOR | | | |

| R11, R93 | | | |
|--------------|-------|-------|--------|
| PART NO. | VALUE | TOL | RATING |
| 1006788 - 6 | 10 | ± 1 % | 1/4 W |
| 1006788 - 9 | 27 | ± 1 % | |
| 1006750 - 1 | 51 | ± 2 % | |
| - 4 | 68 | | |
| - 7 | 91 | | |
| - 9 | 110 | | |
| - 11 | 130 | | |
| - 12 | 150 | | |
| - 13 | 160 | | |
| - 14 | 180 | | |
| - 15 | 200 | | |
| - 16 | 220 | | |
| 1006750 - 17 | 240 | ± 2 % | 1/4 W |

| R12 | | |
|----------|------|-------|
| PART NO. | | VALUE |
| 1006750 | - 36 | 1500 |
| | - 37 | 1600 |
| | - 38 | 1800 |
| | - 39 | 2000 |
| | - 40 | 3200 |
| 1006750 | - 41 | 3400 |

| R94 | | |
|----------|------|-------|
| PART NO. | | VALUE |
| 1006750 | - 27 | 620 |
| | - 30 | 820 |
| | - 32 | 1000 |
| | - 34 | 1200 |
| | - 35 | 1300 |
| | - 36 | 1500 |
| | - 37 | 1600 |
| 1006750 | - 38 | 1800 |

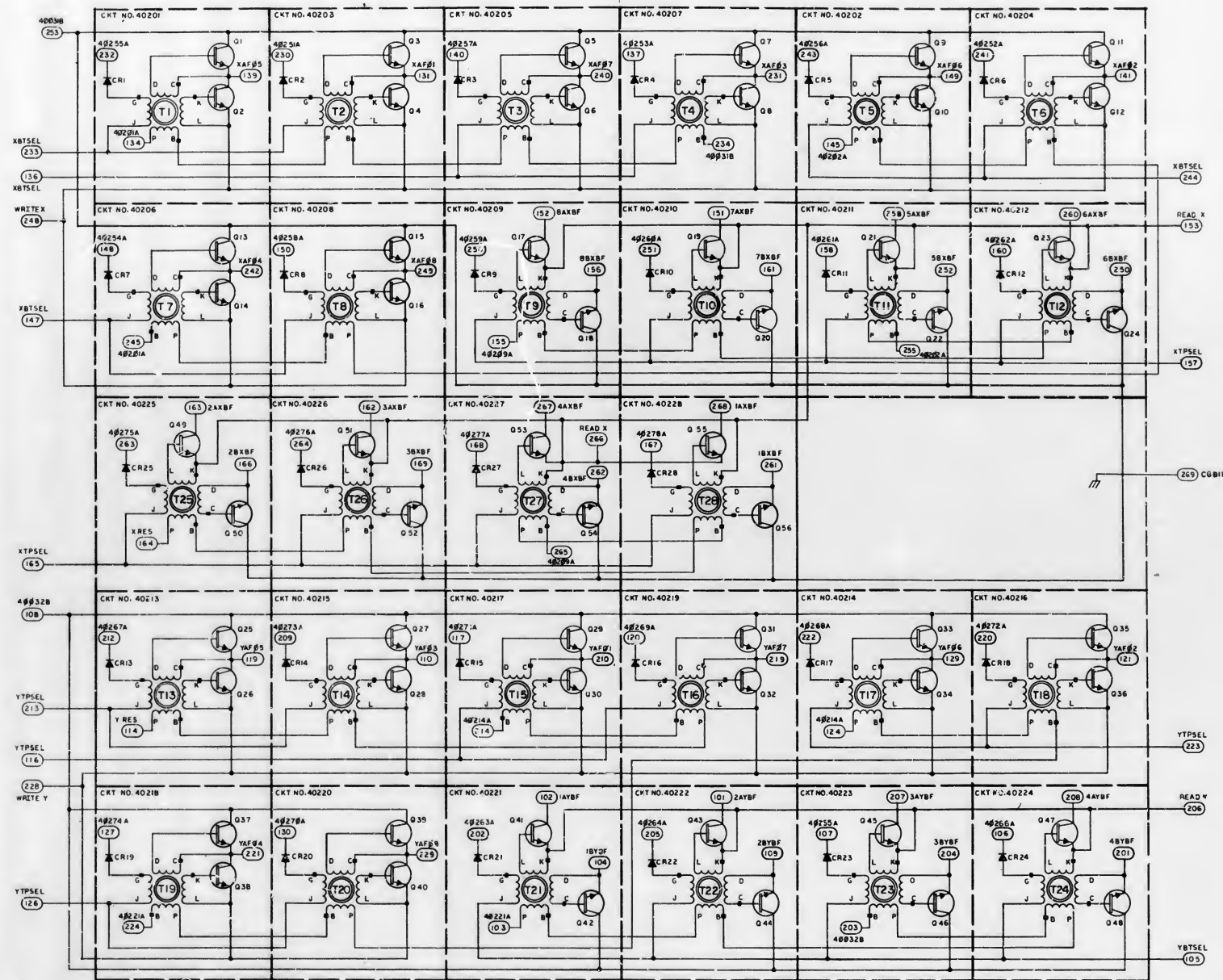
| 23 | | | |
|-------------|-------|------|------|
| PART NO. | VALUE | TOL | NOTE |
| 1006750-129 | 1420 | ± 2% | 14W |
| -46 | 3600 | | |
| -129 | 3780 | | |
| -46 | 3900 | | |
| -130 | 4100 | | |
| -47 | 4200 | | |
| -131 | 4500 | | |
| 1006750-48 | 4700 | ± 2% | 14W |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATN |
|---------|---------------|-------------|-------|-------|-------|
| R111 | 806750 - 41 | RESISTOR | 4300 | ± 2% | 1/4 W |
| R114 | -19 | | 200 | | |
| R115 | -34 | | 1500 | | |
| R116 | -25 | | 510 | | |
| R117 | -17 | | 4300 | | |
| R118 | -30 | | 920 | | |
| R119 | -30 | | 5600 | | |
| R200 | -30 | | 5100 | | |
| R21 | -39 | | 2000 | | |
| R22 | -25 | | 510 | | |
| R23 | -30 | | 4300 | | |
| R24 | 1006750 - 56 | RESISTOR | 5600 | ± 2% | 1/4 W |
| C13 | 10106755 - 21 | CAPACITOR | 22UF | ± 10% | 18VDC |
| C14 | 10106755 - 69 | CAPACITOR | 10UF | ± 10% | 35VDC |

| | | | | | |
|-----|------------|-----------|------|------|-------|
| C13 | 1006755-21 | CAPACITOR | 22UF | ±10% | 15VDC |
| C14 | 1006755-69 | CAPACITOR | 10UF | ±10% | 35VDC |

[illegible]

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-B-70327



REF DWG:
CURRENT SWITCH MODULE ASSY
DWG NO. 2003026

| | | | |
|-------------------------------------------------------------------|----------------------------|--------------------------------|------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIG NO. |
| LIST OF MATERIALS | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| SCHEMATIC, CURRENT SWITCH MODULE MODULE NO. 811 | | | |
| CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> | | DATE: 80230 E | |
| NEXT TREATMENT | | FINAL FINISH | |
| NEXT DATE | | USED ON | |
| APPLICATION | | APPLICATION | |

2005925

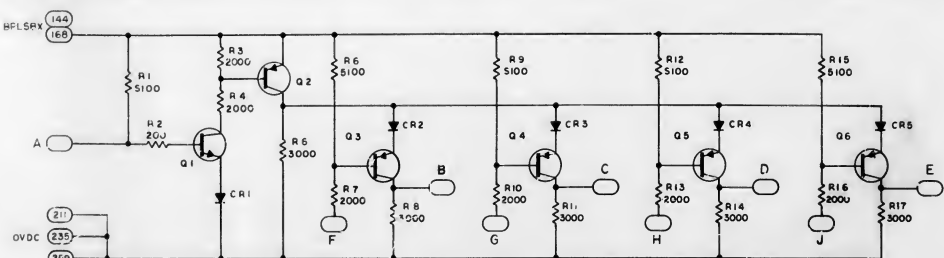
1 OF 2

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|------------|----------------------------|-------|-----|--------|
| Q 1 | 200484-004 | TRANSISTOR MATCHED PAIR | | | |
| Q 2 | | | | | |
| Q 3 | | | | | |
| Q 4 | | | | | |
| Q 5 | | | | | |
| Q 6 | | | | | |
| Q 7 | | | | | |
| Q 8 | | | | | |
| Q 9 | | | | | |
| Q 10 | | | | | |
| Q 11 | | | | | |
| Q 12 | | | | | |
| Q 13 | | | | | |
| Q 14 | | | | | |
| Q 15 | | | | | |
| Q 16 | | | | | |
| Q 17 | | | | | |
| Q 18 | | | | | |
| Q 19 | | | | | |
| Q 20 | | | | | |
| Q 21 | | | | | |
| Q 22 | | | | | |
| Q 23 | | | | | |
| Q 24 | | | | | |
| Q 25 | | | | | |
| Q 26 | | | | | |
| Q 27 | | | | | |
| Q 28 | | | | | |
| Q 29 | | | | | |
| Q 30 | | | | | |
| Q 31 | | | | | |
| Q 32 | | | | | |
| Q 33 | | | | | |
| Q 34 | | | | | |
| Q 35 | | | | | |
| Q 36 | | | | | |
| Q 37 | | | | | |
| Q 38 | | | | | |
| Q 39 | | | | | |
| Q 40 | | | | | |
| Q 41 | | | | | |
| Q 42 | | | | | |
| Q 43 | | | | | |
| Q 44 | | | | | |
| Q 45 | | | | | |
| Q 46 | | | | | |
| Q 47 | | | | | |
| Q 48 | | | | | |
| Q 49 | | | | | |
| Q 50 | | | | | |
| Q 51 | | | | | |
| Q 52 | | | | | |
| Q 53 | | | | | |
| Q 54 | | | | | |
| Q 55 | 200484-004 | TRANSISTOR MATCHED PAIR | | | |
| Q 56 | | | | | |

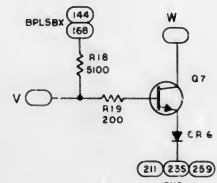
| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-----------------|-------|-----|--------|
| CR 1 | 200483-001 | DIODE | | | |
| CR 2 | | | | | |
| CR 3 | | | | | |
| CR 4 | | | | | |
| CR 5 | | | | | |
| CR 6 | | | | | |
| CR 7 | | | | | |
| CR 8 | | | | | |
| CR 9 | | | | | |
| CR 10 | | | | | |
| CR 11 | | | | | |
| CR 12 | | | | | |
| CR 13 | | | | | |
| CR 14 | | | | | |
| CR 15 | | | | | |
| CR 16 | | | | | |
| CR 17 | | | | | |
| CR 18 | | | | | |
| CR 19 | | | | | |
| CR 20 | | | | | |
| CR 21 | | | | | |
| CR 22 | | | | | |
| CR 23 | | | | | |
| CR 24 | | | | | |
| CR 25 | | | | | |
| CR 26 | | | | | |
| CR 27 | | | | | |
| CR 28 | | | | | |
| T 1 | 1003084-011 | X CORE ASSEMBLY | | | |
| T 2 | | | | | |
| T 3 | | | | | |
| T 4 | | | | | |
| T 5 | | | | | |
| T 6 | | | | | |
| T 7 | | | | | |
| T 8 | | | | | |
| T 9 | | | | | |
| T 10 | | | | | |
| T 11 | | | | | |
| T 12 | | | | | |
| T 13 | | | | | |
| T 14 | | | | | |
| T 15 | | | | | |
| T 16 | | | | | |
| T 17 | | | | | |
| T 18 | | | | | |
| T 19 | | | | | |
| T 20 | | | | | |
| T 21 | | | | | |
| T 22 | | | | | |
| T 23 | | | | | |
| T 24 | | | | | |
| T 25 | | | | | |
| T 26 | | | | | |
| T 27 | | | | | |
| T 28 | | | | | |

| | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|-----------------------------|--|--------------|
| QTY REQD | | PART OR IDENTIFYING NO | | NOMENCLATURE OR DESCRIPTION | | FIG NO |
| <div style="display: flex; justify-content: space-between;"> <div> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL</p> </div> <div> <p>W.T. INSTRUMENTATION LAB CHECKED <i>[Signature]</i> APPROVAL <i>[Signature]</i></p> </div> <div> <p>MANNNED SPACECRAFT CENTER HOUSTON, TEXAS</p> </div> </div> | | | | | | |
| NEXT ASSY | | USED ON | | FINAL FINISH | | APPLICATION |
| HEAT TREATMENT | | PASA APPROVAL | | CORE GROW NO | | SCALE |
| 80230 | | E | | 2005925 | | SHEET 2 OF 2 |

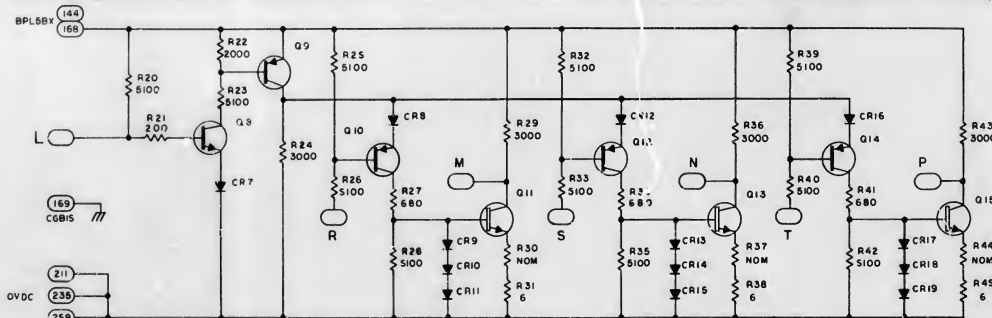
CKT NO. 40601
40602
40603



CKT NO. 40611 THRU 40617



CKT NO. 40631, 40632



| CIRCUIT NO. | A | B | C | D | E | F | G | H | J |
|-------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|
| 40601 | STR14 263 | STR01 164 | STR02 160 | STR03 154 | STR04 150 | SE19 161 | SE210 155 | SE311 151 | SE412 146 |
| 40602 | STR08 165 | STR05 264 | STR06 250 | STR07 254 | STR08 249 | SE19 161 | SE210 155 | SE311 151 | SE412 146 |
| 40603 | STR02 266 | STR09 161 | STR10 196 | STR11 152 | STR12 167 | SE19 161 | SE210 155 | SE311 151 | SE412 146 |

| CIRCUIT NO. | L | M | N | P | R | S | T |
|-------------|------------|-----------|-----------|-----------|---------|---------|---------|
| 40631 | LOMOD 245 | MOD01 131 | MOD01 123 | MOD01 115 | RPR 239 | RPS 229 | RPT 221 |
| 40632 | HI MOD 246 | MOD02 131 | MOD02 125 | MOD02 117 | RPR 239 | RPS 229 | RPT 221 |

| CIRCUIT NO. | V | W |
|-------------|------------|-----------|
| 40611 | STR15 163 | SE19 161 |
| 40612 | STR210 157 | SE210 155 |
| 40613 | STR311 153 | SE311 151 |
| 40614 | STR012 148 | SE412 146 |
| 40615 | ROPER 138 | RPR 239 |
| 40616 | ROPES 129 | RPS 229 |
| 40617 | ROPET 120 | RPT 221 |

| PART NO. | VALUE |
|------------|-------|
| 1006788-34 | 3.0 |
| -36 | 3.2 |
| -38 | 3.4 |
| -40 | 3.6 |
| -42 | 3.8 |
| -44 | 4.0 |
| -46 | 4.2 |
| -48 | 4.4 |
| -50 | 4.6 |
| -52 | 4.8 |
| -54 | 5.0 |
| -56 | 5.2 |
| -58 | 5.4 |
| -60 | 5.6 |
| -62 | 5.8 |
| -64 | 6.0 |
| -66 | 6.2 |
| -68 | 6.4 |
| -70 | 6.6 |
| -72 | 6.8 |
| -74 | 7.0 |
| -76 | 7.2 |
| -78 | 7.4 |
| -80 | 7.6 |
| -82 | 7.8 |
| -84 | 8.0 |
| -86 | 8.2 |
| -88 | 8.4 |
| -90 | 8.6 |
| -92 | 8.8 |
| -94 | 9.0 |
| -96 | 9.2 |
| -98 | 9.4 |
| -100 | 9.6 |
| 1006788-6 | 10 |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-------------|-------|------|--------|
| R1 | 1006750-49 | RESISTOR | 5100 | ± 2% | 1/4 W |
| R2 | - 15 | | 200 | | |
| R3 | - 39 | | 2000 | | |
| R4 | - 39 | | 2000 | | |
| R5 | - 43 | | 3000 | | |
| R6 | - 49 | | 5100 | | |
| R7 | - 39 | | 2000 | | |
| R8 | - 43 | | 3000 | | |
| R9 | - 49 | | 5100 | | |
| R10 | - 39 | | 2000 | | |
| R11 | - 43 | | 3000 | | |
| R12 | - 49 | | 5100 | | |
| R13 | - 39 | | 2000 | | |
| R14 | - 43 | | 3000 | | |
| R15 | - 49 | | 5100 | | |
| R16 | - 39 | | 2000 | | |
| R17 | - 43 | | 3000 | | |
| R18 | - 49 | | 5100 | | |
| R19 | - 15 | | 200 | | |
| R20 | - 49 | | 5100 | | |
| R21 | - 15 | | 200 | | |
| R22 | - 39 | | 2000 | | |
| R23 | - 49 | | 5100 | | |
| R24 | - 43 | | 3000 | | |
| R25 | - 49 | | 5100 | | |
| R26 | - 49 | | 5100 | | |
| R27 | - 26 | | 680 | | |
| R28 | - 28 | | 5100 | | |
| R29 | 1006750-43 | | 3000 | ± 2% | |
| R30 | SEE NOTE 2 | | NOM | ± 1% | |
| R31 | 1006788-59 | | 6 | ± 1% | |
| R32 | 1006750-49 | | 5100 | ± 2% | |
| R33 | - 49 | | 5100 | | |
| R34 | - 28 | | 680 | | |
| R35 | - 49 | | 5100 | | |
| R36 | 1006750-43 | | 3000 | ± 2% | |
| R37 | SEE NOTE 2 | | NOM | ± 1% | |
| R38 | 1006788-59 | | 6 | ± 1% | |
| R39 | 1006750-49 | | 5100 | ± 2% | |
| R40 | - 49 | | 5100 | | |
| R41 | - 28 | | 680 | | |
| R42 | - 49 | | 5100 | | |
| R43 | 1006750-43 | | 3000 | ± 2% | |
| R44 | SEE NOTE 2 | | NOM | ± 1% | |
| R45 | 1006788-59 | RESISTOR | 6 | ± 1% | 1/4 W |
| CR1 | 2004183-001 | DIODE | | | |
| CR2 | | | | | |
| CR3 | | | | | |
| CR4 | | | | | |
| CR5 | | | | | |
| CR6 | | | | | |
| CR7 | | | | | |
| CR8 | | | | | |
| CR9 | | | | | |
| CR10 | | | | | |
| CR11 | | | | | |
| CR12 | | | | | |
| CR13 | | | | | |
| CR14 | | | | | |
| CR15 | | | | | |
| CR16 | | | | | |
| CR17 | | | | | |
| CR18 | | | | | |
| CR19 | 2004183-001 | DIODE | | | |
| Q1 | 2004184-001 | TRANSISTOR | | | |
| Q2 | 2004004-002 | | | | |
| Q3 | | | | | |
| Q4 | | | | | |
| Q5 | | | | | |
| Q6 | 2004004-002 | | | | |
| Q7 | 2004184-001 | | | | |
| Q8 | 2004184-001 | | | | |
| Q9 | 2004004-002 | | | | |
| Q10 | 2004004-002 | | | | |
| Q11 | 2004184-001 | | | | |
| Q12 | 2004004-002 | | | | |
| Q13 | 2004184-001 | | | | |
| Q14 | 2004004-002 | | | | |
| Q15 | 2004184-001 | TRANSISTOR | | | |

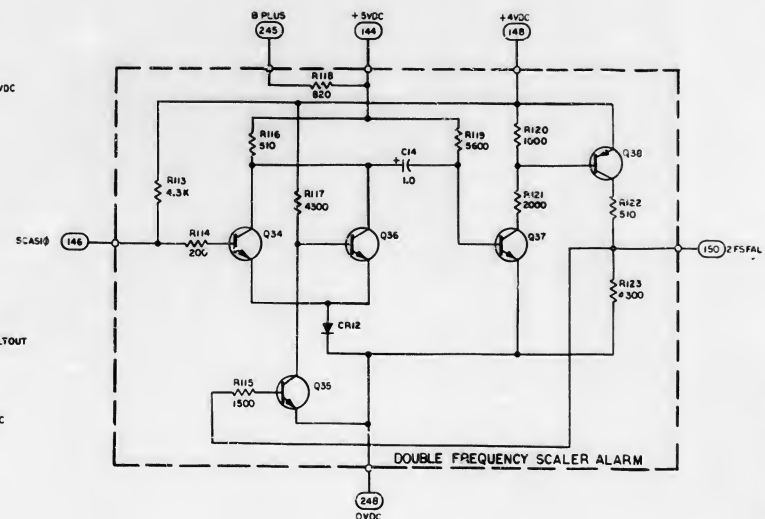
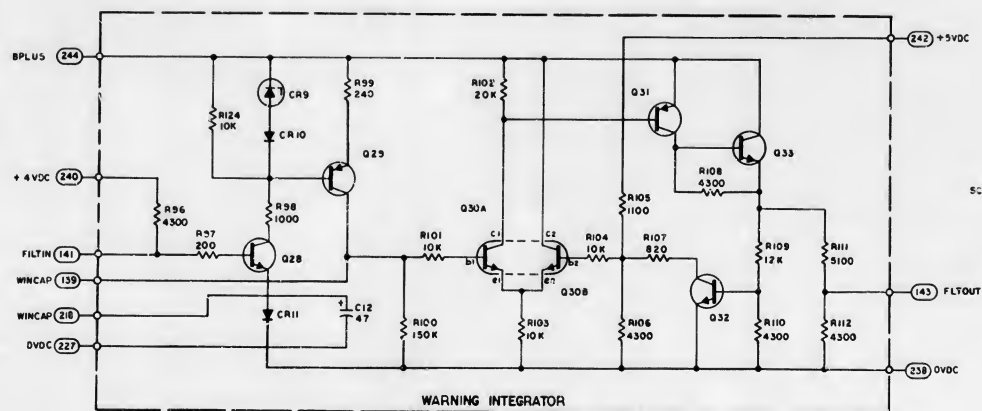
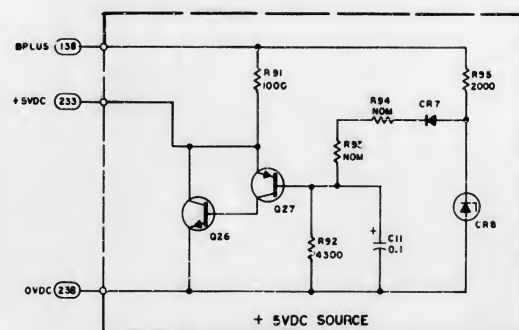
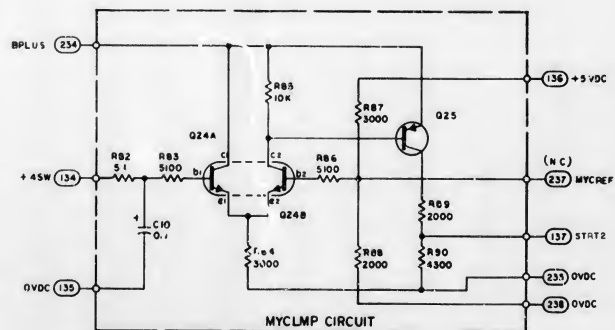
NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- THE VALUE OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT ELECTRICAL TEST (R30, R37, AND R44) TO BE SELECTED FROM APPROPRIATE CHART

REF DWG:
DRAW SELECT ASSY
DWG NO. 2003027

| | | | | | | |
|-----|----|------|-------------|----|-----|------|
| REV | NO | DATE | DESCRIPTION | BY | CHK | DATE |
| 1 | | | | | | |

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN P.F. RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES R. DIM. OR DIM. OR DIM. OR DIM. DO NOT SCALE THIS DRAWING | INSTRUMENTATION LAB CHECKED: [Signature] APPROVED: [Signature] MATERIAL: [Signature] | MANAGED SPACECRAFT CENTER HUNTSVILLE, ALABAMA SCHEMATIC, STRAND SELECT MODULE NO. B15 80230 E 2005926 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|



| | | | | | | | |
|--------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CONNECTION VALUES ARE IN IN. RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES IN DEGREES OR MINUTES DO NOT SCALE THIS DRAWING | | M.I.T. INSTRUMENTATION LAB 300 MASSACHUSETTS AVENUE CAMBRIDGE, MASSACHUSETTS 02139 DRAWN BY: <u>W. J. J.</u> (DATE: <u>1/1/81</u>) CHECKED BY: <u>W. J. J.</u> APPROVED BY: <u>W. J. J.</u> | | SITE OF MATERIALS MANHATTAN SPACEPORT CENTER HUGHERS TERRACE SCHEMATIC ALARM 88 | |
| NEXT SHEET USED ON | | APPROVED BY: <u>W. J. J.</u> DATE: <u>1/1/81</u> TITLE: <u>ALARM 88</u> | | CODE IDENT NO: <u>80230</u> | | DRAWING NO: <u>2005927</u> | |
| APPLICATION | | DESIGNED BY: <u>W. J. J.</u> DATE: <u>1/1/81</u> | | E: <u>E</u> | | 1 OF 2 (SHEET 2 OF 3) | |

2005927 A

| REV | DATE | DESCRIPTION | BY | CHK | DATE | APPROVED |
|-----|---------|-------------|----|-----|------|----------|
| 1 | 11-1-77 | 2005927 A | | | | |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-------------|-------|------|--------|
| R1 | 1010377-51 | RESISTOR | 5000 | ±10% | 1/10 W |
| R2 | 1006750-1 | | 51 | ±2% | 1/4 W |
| R3 | SEE NOTE 2 | | NOM | ±2% | 1/4 W |
| R4 | 1010377-50 | | 2.0K | ±10% | 1/10 W |
| R5 | 1010377-51 | | 5000 | ±10% | 1/10 W |
| R6 | 1006750-43 | | 7000 | ±2% | 1/4 W |
| R7 | 1010377-51 | | 5100 | ±10% | 1/10 W |
| R8 | 1006750-6 | | 82 | ±2% | 1/4 W |
| R9 | 1006750-6 | | 82 | ±2% | 1/4 W |
| R10 | 1006750-1 | | 51 | ±2% | 1/4 W |
| R11 | SEE NOTE 2 | | NOM | ±2% | 1/4 W |
| R12 | SEE NOTE 2 | | NOM | ±2% | 1/4 W |
| R13 | 1010377-227 | | 900 | ±10% | 1/10 W |
| R14 | -227 | | 900 | | |
| R15 | -227 | | 900 | | |
| R16 | -227 | | 900 | | |
| R17 | -227 | | 900 | | |
| R18 | 1010377-227 | | 900 | ±10% | 1/10 W |
| R19 | 1006750-6 | | 100 | ±2% | 1/4 W |
| R20 | -56 | | 10K | | |
| R21 | -56 | | 10K | | |
| R22 | -49 | | 5100 | | |
| R23 | -49 | | 5100 | | |
| R24 | -49 | | 5100 | | |
| R25 | -49 | | 5100 | | |
| R26 | -49 | | 5100 | | |
| R27 | -49 | | 5100 | | |
| R28 | -49 | | 5100 | | |
| R29 | -49 | | 5100 | | |
| R30 | -49 | | 10K | | |
| R31 | -49 | | 5100 | | |
| R32 | -49 | | 5100 | | |
| R33 | -43 | | 3000 | | |
| R34 | -43 | | 3000 | | |
| R35 | -56 | | 10K | | |
| R36 | -56 | | 10K | | |
| R37 | -56 | | 10K | | |
| R38 | -84 | | 150K | | |
| R39 | -58 | | 12K | | |
| R40 | -84 | | 150K | | |
| R41 | -58 | | 12K | | |
| R42 | -49 | | 5100 | | |
| R43 | -43 | | 3000 | | |
| R44 | -58 | | 12K | | |
| R45 | -41 | | 2400 | | |
| R46 | -56 | | 10K | | |
| R47 | -56 | | 10K | | |
| R48 | -84 | | 150K | | |
| R49 | -56 | | 10K | | |
| R50 | -47 | | 4300 | | |
| R51 | -32 | | 1000 | | |
| R52 | -56 | | 10K | ±2% | |
| R53 | 1006750-58 | | 12K | ±2% | |
| R54 | 1006750-6 | | 10 | ±1% | |
| R55 | 1006750-84 | | 150K | ±2% | |
| R56 | 1006750-84 | | 150K | ±2% | |
| R57 | 1006750-6 | | 10 | ±1% | |
| R58 | 1006750-58 | | 12K | ±2% | |
| R59 | -47 | | 4300 | | |
| R60 | -58 | | 12K | | |
| R61 | -58 | | 12K | | |
| R62 | -47 | | 4300 | | |
| R63 | -47 | | 4300 | | |
| R64 | -58 | | 12K | | |
| R65 | -39 | | 2000 | | |
| R66 | -49 | | 5100 | | |
| R67 | -18 | | 300 | | |
| R68 | -47 | | 4300 | | |
| R69 | -39 | | 2000 | | |
| R70 | -39 | | 2000 | | |
| R71 | -32 | | 1000 | | |
| R72 | -83 | | 130K | | |
| R73 | -8 | | 100 | | |
| R74 | -25 | | 510 | | |
| R75 | -8 | | 100 | | |
| R76 | -39 | | 2000 | | |
| R77 | -49 | | 5100 | | |
| R78 | -49 | | 5100 | | |
| R79 | -39 | | 2000 | | |
| R80 | -49 | | 5100 | | |
| R81 | -47 | | 4300 | | |
| R82 | -1 | | 51 | | |
| R83 | -49 | | 5100 | | |
| R84 | -43 | | 3000 | | |
| R85 | -56 | | 10K | | |
| R86 | -49 | | 5100 | | |
| R87 | -43 | | 3000 | | |
| R88 | -39 | | 2000 | | |
| R89 | -39 | | 2000 | | |
| R90 | -47 | | 4300 | | |
| R91 | -22 | | 1000 | | |
| R92 | 1006750-47 | | 4300 | ±2% | 1/4 W |
| R93 | SEE NOTE 2 | | NOM | ±2% | 1/4 W |
| R94 | SEE NOTE 2 | | NOM | ±2% | 1/4 W |
| R95 | 1006750-39 | | 2000 | ±2% | 1/4 W |
| R96 | -47 | | 4300 | | |
| R97 | -15 | | 200 | | |
| R98 | -52 | | 1000 | | |
| R99 | -17 | | 240 | | |
| R100 | -84 | | 150K | | |
| R101 | -56 | | 10K | | |
| R102 | -63 | | 20K | | |
| R103 | -56 | | 10K | | |
| R104 | -56 | | 10K | | |
| R105 | -33 | | 1100 | | |
| R106 | -47 | | 4300 | | |
| R107 | -30 | | 820 | | |
| R108 | -47 | | 4300 | | |
| R109 | -58 | | 12K | | |
| R110 | -47 | | 4300 | | |
| R111 | -49 | | 5100 | | |
| R112 | 1006750-47 | RESISTOR | 4300 | ±2% | 1/4 W |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-------------|-------|------|--------|
| C1 | 1006755-8 | CAPACITOR | 6.3 | ±10% | 50 VDC |
| C2 | 1006777-25 | | .002 | ±10% | 100 |
| C3 | 1006755-57 | | 0.1 | ±10% | 35 |
| C4 | 1006777-25 | | .002 | ±10% | 100 |
| C5 | 1006777-20 | | .010 | ±10% | 100 |
| C6 | 1006755-57 | | 0.1 | ±10% | 35 |
| C7 | 1006755-31 | | 10 | ±10% | 50 |
| C8 | 1006777-24 | | 10000 | ±10% | 100 |
| C9 | 1006755-79 | | 6.3 | ±10% | 35 |
| C10 | 1006755-57 | | 0.1 | ±10% | 35 |
| C11 | 1006755-57 | | 0.1 | ±10% | 35 |
| C12 | 1006755-36 | CAPACITOR | 47 | ±10% | 20 VDC |
| CR1 | 2004183-001 | DIODE | | | |
| CR2 | 2004183-001 | | | | |
| CR3 | 2004183-001 | | | | |
| CR4 | 200412-002 | | | | |
| CR5 | 200412-002 | | | | |
| CR6 | 2004183-001 | | | | |
| CR7 | 2004183-001 | | | | |
| CR8 | 200412-002 | | | | |
| CR9 | 200412-002 | | | | |
| CR10 | 2004183-001 | | | | |
| CR11 | 2004183-001 | | | | |
| CR12 | 2004183-001 | DIODE | | | |
| Q1 | 2004004-002 | TRANSISTOR | | | |
| Q2 | 2004004-002 | | | | |
| Q3 | 1010376-1 | | | | |
| Q4 | -1 | | | | |
| Q5 | -1 | | | | |
| Q6 | -1 | | | | |
| Q7 | 1010376-1 | | | | |
| Q8 | 2004004-002 | | | | |
| Q9 | 2004004-002 | | | | |
| Q10 | 2004004-002 | | | | |
| Q11 | 2004184-001 | | | | |
| Q12 | 2004184-001 | | | | |
| Q13 | 2004004-002 | | | | |
| Q14 | 2004184-001 | | | | |
| Q15 | 2004184-001 | | | | |
| Q16 | 2004184-001 | | | | |
| Q17 | 2004004-002 | | | | |
| Q18 | 2004184-001 | | | | |
| Q19 | 2004004-002 | | | | |
| Q20 | 2004184-001 | | | | |
| Q21 | 2004004-002 | | | | |
| Q22 | 2004184-001 | | | | |
| Q23 | 2004004-002 | | | | |
| Q24 | 1010376-1 | | | | |
| Q25 | 2004004-002 | | | | |
| Q26 | 2004184-001 | | | | |
| Q27 | 2004004-002 | | | | |
| Q28 | 2004184-001 | | | | |
| Q29 | 2004004-002 | | | | |
| Q30 | 1010376-1 | | | | |
| Q31 | 2004004-002 | | | | |
| Q32 | 2004184-001 | | | | |
| Q33 | -001 | | | | |
| Q34 | -001 | | | | |
| Q35 | -001 | | | | |
| Q36 | -001 | | | | |
| Q37 | 2004184-001 | | | | |
| Q38 | 2004004-002 | TRANSISTOR | | | |

| PART NO. | VALUE | TOL | RATING |
|------------|-------|-----|--------|
| 1006788-6 | 10 | ±1% | 1/4 W |
| 1006788-9 | 27 | ±1% | 1/4 W |
| 1006780-1 | 51 | ±2% | |
| -4 | 6.8 | | |
| -7 | 91 | | |
| -2 | 110 | | |
| -11 | 750 | | |
| -12 | 150 | | |
| -13 | 160 | | |
| -14 | 180 | | |
| -15 | 200 | | |
| -16 | 220 | | |
| 1006750-17 | 240 | ±2% | 1/4 W |

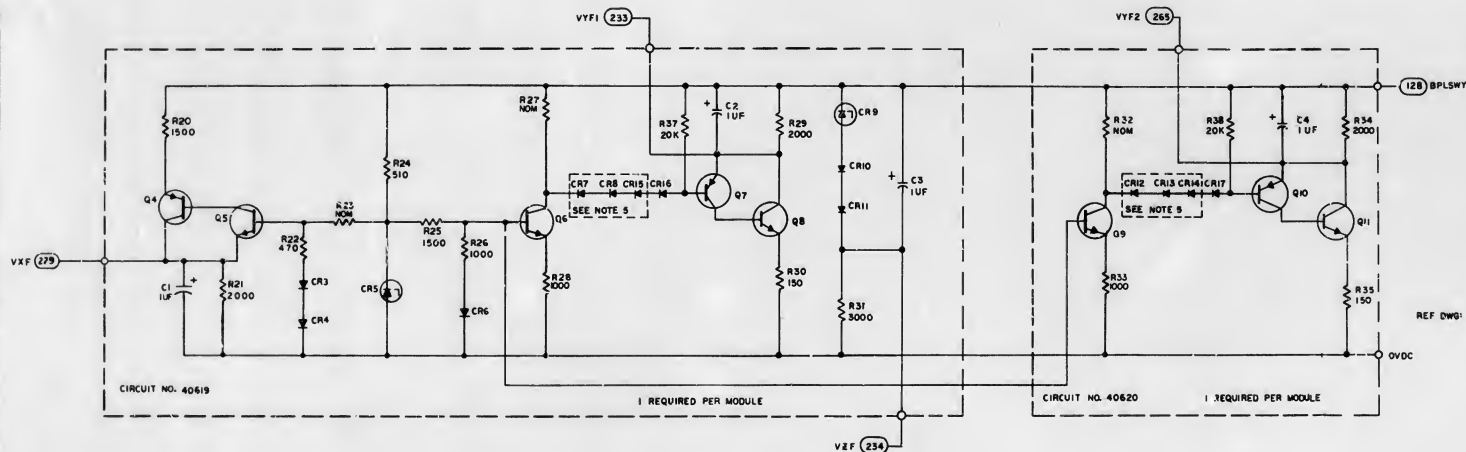
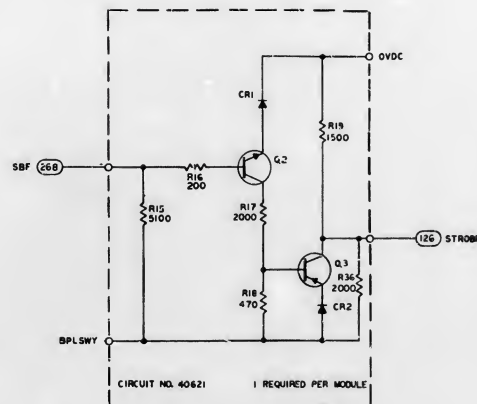
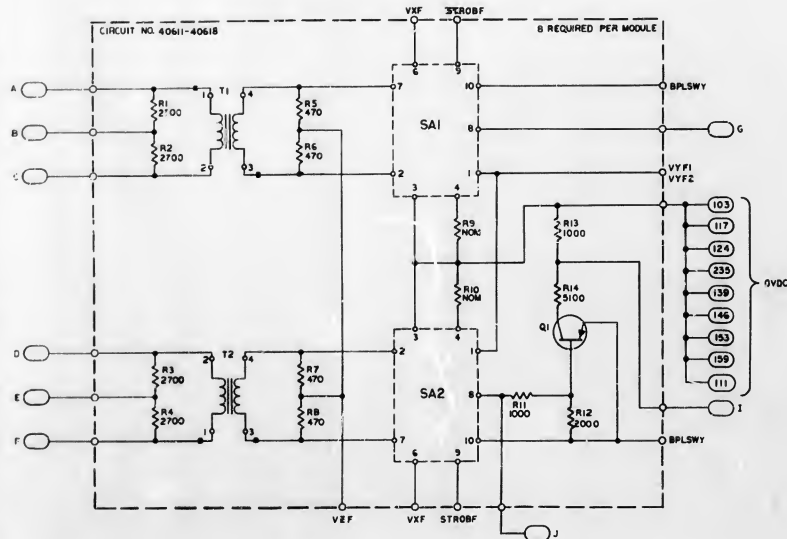
| PART NO. | VALUE | TOL | RATING |
|-------------|-------|-----|--------|
| 1006780-128 | 3450 | ±2% | 1/4 W |
| -48 | 3500 | | |
| -123 | 3760 | | |
| -46 | 3900 | | |
| -130 | 4100 | | |
| -47 | 4300 | | |
| -131 | 4500 | | |
| 1006780-48 | 4700 | ±2% | 1/4 W |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|------------|-------------|-------|------|--------|
| R113 | 1006750-47 | RESISTOR | 4300 | ±2% | 1/4 W |
| R114 | -15 | | 200 | | |
| R115 | -36 | | 1500 | | |
| R116 | -25 | | 510 | | |
| R117 | -47 | | 4300 | | |
| R118 | -30 | | 820 | | |
| R119 | -50 | | 5600 | | |
| R120 | -35 | | 1000 | | |
| R121 | -35 | | 2000 | | |
| R122 | -15 | | 510 | | |
| R123 | -45 | | 4300 | | |
| R124 | 1006750-47 | RESISTOR | 10K | ±2% | 1/4 W |
| C13 | 1006755-21 | CAPACITOR | 22UF | ±10% | 15VDC |
| C14 | 1006755-69 | CAPACITOR | 10UF | ±10% | 35VDC |

| PART NO. | VALUE |
|------------|-------|
| 1006750-27 | 620 |
| -30 | 820 |
| -37 | 1600 |
| -38 | 1800 |
| -34 | 1200 |
| -35 | 1500 |
| -36 | 1500 |
| -37 | 1500 |
| 1006750-41 | 2400 |

| | | | | |
|-----|-----------|-------------|------|----|
| REV | PART NO. | DESCRIPTION | DATE | BY |
| 1 | 2005927 A | | | |

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE IN INCHES FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING | M.I.T. INSTRUMENTATION LAB CAMBRIDGE, MASS DRAWN BY <i>[Signature]</i> CHECKED BY <i>[Signature]</i> APPROVED BY <i>[Signature]</i> DATE <i>[Date]</i> | LIST OF MATERIALS MANNED SPACECRAFT CENTER ALARM B8 SCHEMATIC, ALARM B8 DRAWING NO. 2005927 SHEET 5 OF 3 |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|



REF DWG: SENSE AMPLIFIER ASSY DWG NO. 2003981

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-20327.
2. RESISTOR VALUES SHALL BE IN OHMS UNLESS OTHERWISE SPECIFIED.
3. CAPACITOR VALUES SHALL BE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
4. NOMINAL VALUES ARE TO BE SELECTED BY ELECTRICAL TEST, CHART A AND B.
5. ONE, TWO OR THREE DIODES TO BE SELECTED BY ELECTRICAL TEST.



| QTY REQD | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | FIG NO |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|--------|
| LIST OF MATERIALS | | | |
| <div style="display: flex; justify-content: space-between;"> <div> <p>UNLESS OTHERWISE SPECIFIED</p> <p>ALL DIMENSIONS ARE IN INCHES</p> <p>FRACTIONS DECIMALS ANGLES</p> <p>DO NOT SCALE THIS DRAWING</p> <p>MATERIAL</p> <p>HEAT TREATMENT</p> <p>FINISH</p> <p>APPLICATION</p> </div> <div> <p>BY: INSTRUMENTATION LAB</p> <p>DATE: 11/1/64</p> <p>CHECKED: [Signature]</p> <p>APPROVED: [Signature]</p> <p>WADA APPROVAL: [Signature]</p> <p>SEC APP: [Signature]</p> </div> <div> <p>STANDARD DRAWING NO. 80230 E</p> <p>WORKING NO. 2005929</p> <p>DATE: 11/1/64</p> <p>SHEET 1 OF 2</p> </div> </div> | | | |

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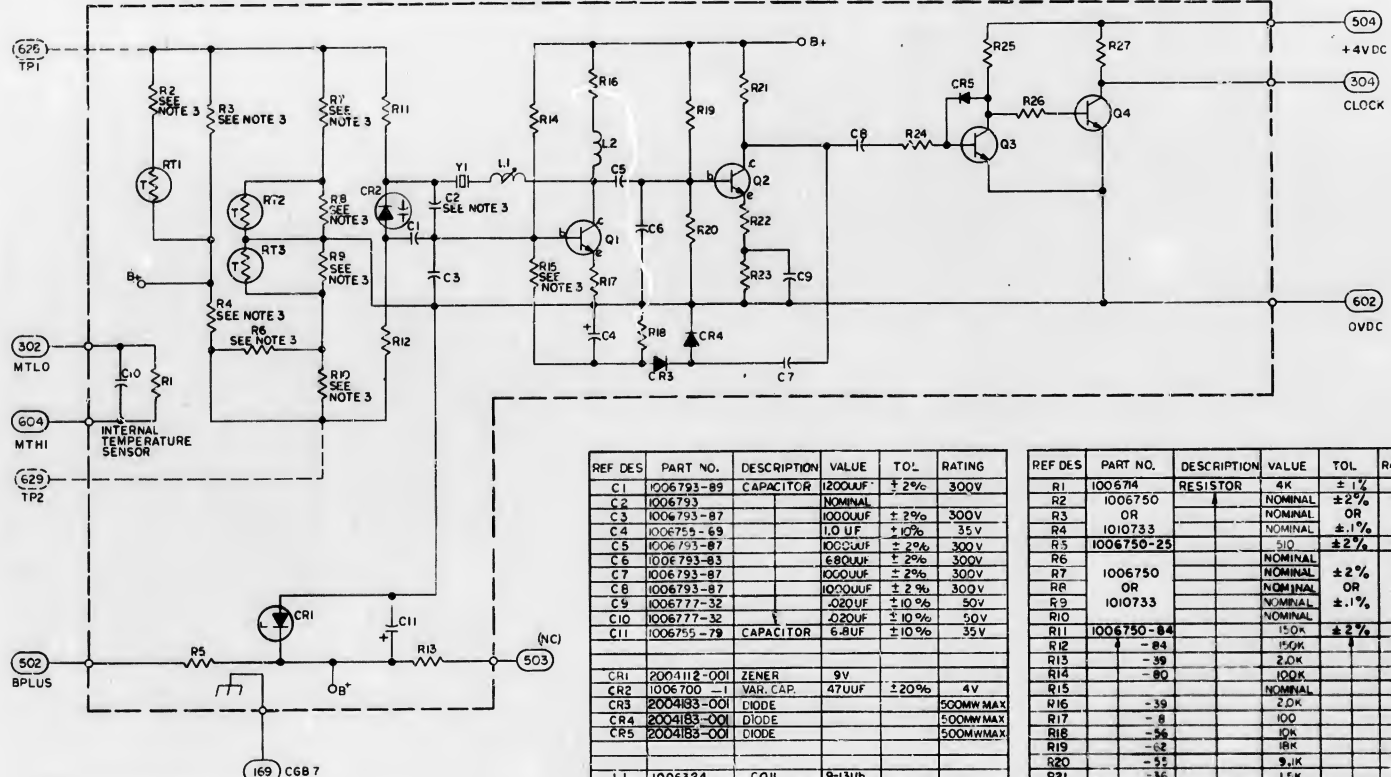
REVISIONS
DATE APPROVAL
DATE APPROVAL

| CHART A | | |
|-----------------|--------------------|-------|
| R3, R27 AND R10 | | |
| PART NO. | QTY | VALUE |
| 1006750-25 | 510 | |
| -26 | 740 | |
| -27 | 620 | |
| -28 | 680 | |
| -29 | 710 | |
| -30 | 820 | |
| -31 | 910 | |
| -32 | 1000 | |
| -33 | 1100 | |
| -34 | 1200 | |
| -35 | 1300 | |
| -36 | 1500 | |
| -37 | 1600 | |
| -38 | 1800 | |
| -39 | 2000 | |
| -40 | 2200 | |
| -41 | 2400 | |
| -42 | 2700 | |
| -43 | 3000 | |
| -44 | 3300 | |
| -45 | 3600 | |
| -46 | 3900 | |
| -47 | 4300 | |
| -48 | 4700 | |
| -49 | 5100 | |
| -50 | 5600 | |
| -51 | 6200 | |
| -52 | 6800 | |
| -53 | 7500 | |
| -54 | 8200 | |
| -55 | 9100 | |
| -56 | 10000 | |
| -57 | 11000 | |
| -58 | 12000 | |
| -59 | 13000 | |
| -60 | 15000 | |
| -61 | 16000 | |
| -62 | 18000 | |
| -63 | 20000 | |
| -64 | 22000 | |
| -65 | 24000 | |
| -66 | 27000 | |
| -67 | 30000 | |
| -68 | 33000 | |
| -69 | 36000 | |
| -70 | 39000 | |
| -71 | 43000 | |
| -72 | 47000 | |
| -73 | 51000 | |
| -74 | 56000 | |
| -75 | 62000 | |
| -76 | 68000 | |
| -77 | 75000 | |
| -78 | 82000 | |
| -79 | 91000 | |
| -80 | 100000 | |
| -81 | 110000 | |
| -82 | 120000 | |
| -83 | 130000 | |
| -84 | 150000 | |
| -85 | 160000 | |
| -86 | 180000 | |
| -87 | 200000 | |
| -88 | 220000 | |
| -89 | 240000 | |
| -90 | 270000 | |
| -91 | 300000 | |
| -92 | 330000 | |
| -93 | 360000 | |
| -94 | 390000 | |
| -95 | 430000 | |
| -96 | 470000 | |
| -97 | 510000 | |
| -98 | 560000 | |
| -99 | 620000 | |
| -100 | 680000 | |
| -101 | 750000 | |
| -102 | 820000 | |
| -103 | 910000 | |
| -104 | 1000000 | |
| -105 | 1100000 | |
| -106 | 1200000 | |
| -107 | 1300000 | |
| -108 | 1500000 | |
| -109 | 1600000 | |
| -110 | 1800000 | |
| -111 | 2000000 | |
| -112 | 2200000 | |
| -113 | 2400000 | |
| -114 | 2700000 | |
| -115 | 3000000 | |
| -116 | 3300000 | |
| -117 | 3600000 | |
| -118 | 3900000 | |
| -119 | 4300000 | |
| -120 | 4700000 | |
| -121 | 5100000 | |
| -122 | 5600000 | |
| -123 | 6200000 | |
| -124 | 6800000 | |
| -125 | 7500000 | |
| -126 | 8200000 | |
| -127 | 9100000 | |
| -128 | 10000000 | |
| -129 | 11000000 | |
| -130 | 12000000 | |
| -131 | 13000000 | |
| -132 | 15000000 | |
| -133 | 16000000 | |
| -134 | 18000000 | |
| -135 | 20000000 | |
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| -137 | 24000000 | |
| -138 | 27000000 | |
| -139 | 30000000 | |
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| -142 | 39000000 | |
| -143 | 43000000 | |
| -144 | 47000000 | |
| -145 | 51000000 | |
| -146 | 56000000 | |
| -147 | 62000000 | |
| -148 | 68000000 | |
| -149 | 75000000 | |
| -150 | 82000000 | |
| -151 | 91000000 | |
| -152 | 100000000 | |
| -153 | 110000000 | |
| -154 | 120000000 | |
| -155 | 130000000 | |
| -156 | 150000000 | |
| -157 | 160000000 | |
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| -159 | 200000000 | |
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| -163 | 300000000 | |
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| -171 | 620000000 | |
| -172 | 680000000 | |
| -173 | 750000000 | |
| -174 | 820000000 | |
| -175 | 910000000 | |
| -176 | 1000000000 | |
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| -197 | 7500000000 | |
| -198 | 8200000000 | |
| -199 | 9100000000 | |
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| -266 | 5600000000000 | |
| -267 | 6200000000000 | |
| -268 | 6800000000000 | |
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| -271 | 9100000000000 | |
| -272 | 10000000000000 | |
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| -289 | 51000000000000 | |
| -290 | 56000000000000 | |
| -291 | 62000000000000 | |
| -292 | 68000000000000 | |
| -293 | 75000000000000 | |
| -294 | 82000000000000 | |
| -295 | 91000000000000 | |
| -296 | 100000000000000 | |
| -297 | 110000000000000 | |
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| -299 | 130000000000000 | |
| -300 | 150000000000000 | |
| -301 | 160000000000000 | |
| -302 | 180000000000000 | |
| -303 | 200000000000000 | |
| -304 | 220000000000000 | |
| -305 | 240000000000000 | |
| -306 | 270000000000000 | |
| -307 | 300000000000000 | |
| -308 | 330000000000000 | |
| -309 | 360000000000000 | |
| -310 | 390000000000000 | |
| -311 | 430000000000000 | |
| -312 | 470000000000000 | |
| -313 | 510000000000000 | |
| -314 | 560000000000000 | |
| -315 | 620000000000000 | |
| -316 | 680000000000000 | |
| -317 | 750000000000000 | |
| -318 | 820000000000000 | |
| -319 | 910000000000000 | |
| -320 | 1000000000000000 | |
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| -323 | 1300000000000000 | |
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| -325 | 1600000000000000 | |
| -326 | 1800000000000000 | |
| -327 | 2000000000000000 | |
| -328 | 2200000000000000 | |
| -329 | 2400000000000000 | |
| -330 | 2700000000000000 | |
| -331 | 3000000000000000 | |
| -332 | 3300000000000000 | |
| -333 | 3600000000000000 | |
| -334 | 3900000000000000 | |
| -335 | 4300000000000000 | |
| -336 | 4700000000000000 | |
| -337 | 5100000000000000 | |
| -338 | 5600000000000000 | |
| -339 | 6200000000000000 | |
| -340 | 6800000000000000 | |
| -341 | 7500000000000000 | |
| -342 | 8200000000000000 | |
| -343 | 9100000000000000 | |
| -344 | 10000000000000000 | |
| -345 | 11000000000000000 | |
| -346 | 12000000000000000 | |
| -347 | 13000000000000000 | |
| -348 | 15000000000000000 | |
| -349 | 16000000000000000 | |
| -350 | 18000000000000000 | |
| -351 | 20000000000000000 | |
| -352 | 22000000000000000 | |
| -353 | 24000000000000000 | |
| -354 | 27000000000000000 | |
| -355 | 30000000000000000 | |
| -356 | 33000000000000000 | |
| -357 | 36000000000000000 | |
| -358 | 39000000000000000 | |
| -359 | 43000000000000000 | |
| -360 | 47000000000000000 | |
| -361 | 51000000000000000 | |
| -362 | 56000000000000000 | |
| -363 | 62000000000000000 | |
| -364 | 68000000000000000 | |
| -365 | 75000000000000000 | |
| -366 | 82000000000000000 | |
| -367 | 91000000000000000 | |
| -368 | 100000000000000000 | |
| -369 | 110000000000000000 | |
| -370 | 120000000000000000 | |
| -371 | 130000000000000000 | |
| -372 | 150000000000000000 | |
| -373 | 160000000000000000 | |
| -374 | 180000000000000000 | |
| -375 | 200000000000000000 | |
| -376 | 220000000000000000 | |
| -377 | 240000000000000000 | |
| -378 | 270000000000000000 | |
| -379 | 300000000000000000 | |
| -380 | 330000000000000000 | |
| -381 | 360000000000000000 | |
| -382 | 390000000000000000 | |
| -383 | 430000000000000000 | |
| -384 | 470000000000000000 | |

NOTES - WHEN NECESSARY, SPECIFICATIONS OF PARTS ARE GIVEN IN THE PART NUMBER. WHEN NECESSARY, SPECIFICATIONS OF PARTS ARE GIVEN IN THE PART NUMBER. WHEN NECESSARY, SPECIFICATIONS OF PARTS ARE GIVEN IN THE PART NUMBER.

2005930

| REV | DESCRIPTION | DATE | APPROVAL |
|-----|----------------------------|----------|----------|
| A | INITIAL RELEASE FROM 30599 | 10/10/64 | 1/1 |



| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-------------|---------|-------|-----------|
| C1 | 1006793-89 | CAPACITOR | 1200UF | ± 2% | 300V |
| C2 | 1006793 | | NOMINAL | | |
| C3 | 1006793-87 | | 1000UF | ± 2% | 300V |
| C4 | 1006755-69 | | 1.0 U F | ± 10% | 35 V |
| C5 | 1006793-87 | | 1000UF | ± 2% | 300 V |
| C6 | 1006793-83 | | 680UF | ± 2% | 300V |
| C7 | 1006793-87 | | 1000UF | ± 2% | 300V |
| C8 | 1006793-87 | | 1000UF | ± 2% | 300V |
| C9 | 1006777-32 | | .020UF | ± 10% | 50V |
| C10 | 1006777-32 | | .020UF | ± 10% | 50V |
| C11 | 1006755-79 | CAPACITOR | 6.8UF | ± 10% | 35 V |
| CR1 | 2004112-001 | ZENER | 9V | | 4V |
| CR2 | 1006700-1 | VAR. CAP. | 47UF | ± 20% | |
| CR3 | 2004183-001 | DIODE | | | 500MW MAX |
| CR4 | 2004183-001 | DIODE | | | 500MW MAX |
| CR5 | 2004183-001 | DIODE | | | 500MW MAX |
| L1 | 1006324 | COIL | 9-13uH | | |
| L2 | 1010406-12 | COIL | 22uH | ± 10% | |
| Y1 | 1006847 | XTAL | | | |
| RT1 | 1006715-1 | THERMISTOR | 100 K | ± 1% | |
| RT2 | 1006712-3 | THERMISTOR | 5 K | ± 1% | |
| RT3 | 1006291 | THERMISTOR | | | |
| Q1 | 2004184-003 | TRANSISTOR | | | |
| Q2 | 2004184-003 | TRANSISTOR | | | |
| Q3 | 2004184-003 | TRANSISTOR | | | |
| Q4 | 2004184-003 | TRANSISTOR | | | |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|------------|-------------|---------|------|--------|
| R1 | 1006714 | RESISTOR | 4K | ± 1% | 1/4 W |
| R2 | 1006750 | | NOMINAL | ± 2% | 1/4 W |
| R3 | OR | | NOMINAL | OR | OR |
| R4 | 1010733 | | NOMINAL | ± 1% | .1 W |
| R5 | 1006750-25 | | SIG | ± 2% | 1/4 W |
| R6 | | | NOMINAL | | |
| R7 | 1006750 | | NOMINAL | ± 2% | 1/4 W |
| R8 | OR | | NOMINAL | OR | OR |
| R9 | 1010733 | | NOMINAL | ± 1% | .1 W |
| R10 | | | NOMINAL | | |
| R11 | 1006750-84 | | 150K | ± 2% | 1/4 W |
| R12 | -84 | | 150K | | |
| R13 | -39 | | 2.0K | | |
| R14 | -80 | | 100K | | |
| R15 | | | NOMINAL | | |
| R16 | -39 | | 2.0K | | |
| R17 | -8 | | 100 | | |
| R18 | -56 | | 10K | | |
| R19 | -62 | | 18K | | |
| R20 | -52 | | 9.1K | | |
| R21 | -36 | | 1.5K | | |
| R22 | -1 | | 51 | | |
| R23 | -34 | | 1.2K | | |
| R24 | -39 | | 2.0K | | |
| R25 | -39 | | 2.0K | | |
| R26 | -27 | | 620 | | |
| R27 | 1006750-43 | RESISTOR | 3.0K | 2% | 1/4 W |

- NOTES
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - RESISTOR VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED
 - THE VALUE OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT UNIT TEST: C2, R2, R3, R4, R6, R7, R8, R9, R10 AND R15 SEE TABLES ON SHEETS 2 AND 3 PART NO. 1006750 ± 2% OR 1010733 ± 1%
 - WHEN VALUE OF R6 R8 R9 OR R10 IS ∞ NO COMPONENTS WILL BE USED

| | | | |
|-------------------------------------------------------------------|-------------------------|----------------------------------------------|---------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIG NO. |
| LIST OF MATERIALS | | | |
| INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| SCHEMATIC CLOCK OSCILLATOR MODULE NO. B7 | | | |
| NASA APPROVAL DATE 10/10/64 APPROVAL [Signature] | | NASA DRAWING NO. 80230 D SCALE NONE WT | |
| HEAT TREATMENT FINAL FINISH | | SHEET 1 OF 3 | |

2005930

NOTES: 1. DIMENSIONS SHOWN UNLESS OTHERWISE SPECIFIED ARE IN INCHES.
2. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
3. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
4. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
5. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
6. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
7. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

2005930

| REV | DESCRIPTION | DATE | APPROVAL |
|-----|-----------------------------|------|----------|
| 1 | INITIAL RELEASE TELL 21.5.7 | | |

| R9 | | | |
|---------------|----------|--------------|----------|
| DASH NO. | OHMS ±2% | DASH NO. | OHMS ±2% |
| 1006750 - 25 | 510 | 1006750 - 43 | 3 K |
| - 109 | 535 | - 127 | 3.15K |
| - 26 | 560 | - 44 | 3.3K |
| - 110 | 590 | - 128 | 3.45K |
| - 27 | 620 | - 45 | 3.6K |
| - 111 | 650 | - 129 | 3.75K |
| - 28 | 680 | - 46 | 3.9K |
| - 112 | 715 | - 130 | 4.1K |
| - 29 | 750 | - 47 | 4.3K |
| - 113 | 785 | - 131 | 4.5K |
| - 30 | 820 | - 48 | 4.7K |
| - 114 | 865 | - 132 | 4.9K |
| - 31 | 910 | - 49 | 5.1K |
| - 115 | 955 | - 133 | 5.35K |
| - 32 | 1 K | - 50 | 5.6K |
| - 116 | 1.05K | - 134 | 5.9K |
| - 33 | 1.1K | - 51 | 6.2K |
| - 117 | 1.15K | - 135 | 6.5K |
| - 34 | 1.2K | - 52 | 6.8K |
| - 118 | 1.25K | - 136 | 7.15K |
| - 35 | 1.3K | - 53 | 7.5K |
| - 119 | 1.4K | - 137 | 7.85K |
| - 36 | 1.5K | - 54 | 8.2K |
| - 120 | 1.55K | - 138 | 8.65K |
| - 37 | 1.6K | - 55 | 9.1K |
| - 121 | 1.7K | - 139 | 9.55K |
| - 38 | 1.8K | - 56 | 10K |
| - 122 | 1.9K | - 140 | 10.5K |
| - 39 | 2.0K | - 57 | 11K |
| - 123 | 2.1K | - 141 | 11.5K |
| - 40 | 2.2K | - 58 | 12K |
| - 124 | 2.3K | - 142 | 12.5K |
| - 41 | 2.4K | 1006750 - 59 | 13K |
| - 125 | 2.55K | | |
| - 42 | 2.7K | | |
| 1006750 - 126 | 2.85K | | |
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2005930

REVISIONS
DATE APPROVAL
A INITIAL RELEASE 7/14/83 519 1782

| R8 AND R7 | | |
|---------------|---------|--|
| DASH NO. | OHMS±2% | |
| 1006750 - 56 | 10 K | |
| -140 | 10.5 K | |
| -57 | 11 K | |
| -141 | 11.5 K | |
| -58 | 12 K | |
| -142 | 12.5 K | |
| -59 | 13 K | |
| -143 | 14 K | |
| -60 | 15 K | |
| -144 | 15.5 K | |
| -61 | 16 K | |
| -145 | 17 K | |
| -62 | 18 K | |
| -146 | 19 K | |
| -63 | 20 K | |
| -147 | 21 K | |
| -64 | 22 K | |
| -148 | 23 K | |
| -65 | 24 K | |
| -149 | 25.5 K | |
| -66 | 27 K | |
| -150 | 28.5 K | |
| -67 | 30 K | |
| -151 | 31.5 K | |
| -68 | 33 K | |
| -152 | 34.5 K | |
| -69 | 36 K | |
| -153 | 37.5 K | |
| -70 | 39 K | |
| -154 | 41 K | |
| -71 | 43 K | |
| -155 | 45 K | |
| -72 | 47 K | |
| -156 | 49 K | |
| -73 | 51 K | |
| -157 | 53.5 K | |
| -74 | 56 K | |
| -158 | 59 K | |
| -75 | 62 K | |
| -159 | 65 K | |
| -76 | 68 K | |
| -160 | 71.5 K | |
| -77 | 75 K | |
| -161 | 78.5 K | |
| -78 | 82 K | |
| -162 | 86.5 K | |
| -79 | 91 K | |
| 1006750 - 163 | 95.5 K | |

| R2 | | |
|--------------|---------|--|
| DASH NO. | OHMS±2% | |
| 1006750 - 52 | 6.8 K | |
| -136 | 7.15 K | |
| -53 | 7.5 K | |
| -137 | 7.85 K | |
| -54 | 8.2 K | |
| -138 | 8.65 K | |
| -55 | 9.1 K | |
| -139 | 9.55 K | |
| -56 | 10 K | |
| -140 | 10.5 K | |
| -57 | 11 K | |
| -141 | 11.5 K | |
| -58 | 12 K | |
| -142 | 12.5 K | |
| -59 | 13 K | |
| -143 | 14 K | |
| -60 | 15 K | |
| -144 | 15.5 K | |
| -61 | 16 K | |
| -145 | 17 K | |
| -62 | 18 K | |
| -146 | 19 K | |
| -63 | 20 K | |
| -147 | 21 K | |
| -64 | 22 K | |
| -148 | 23 K | |
| -65 | 24 K | |
| -149 | 25.5 K | |
| -66 | 27 K | |
| -150 | 28.5 K | |
| -67 | 30 K | |
| -151 | 31.5 K | |
| -68 | 33 K | |
| -152 | 34.5 K | |
| -69 | 36 K | |
| -153 | 37.5 K | |
| -70 | 39 K | |
| -154 | 41 K | |
| -71 | 43 K | |
| -155 | 45 K | |
| -72 | 47 K | |
| -156 | 49 K | |
| -73 | 51 K | |
| -157 | 53.5 K | |
| -74 | 56 K | |
| -158 | 59 K | |
| -75 | 62 K | |
| -159 | 65 K | |
| -76 | 68 K | |
| -160 | 71.5 K | |
| -77 | 75 K | |
| -161 | 78.5 K | |
| -78 | 82 K | |
| -162 | 86.5 K | |
| -79 | 91 K | |
| 1006750 - 51 | 95.5 K | |

SEE NOTE 3

| R15 | | |
|--------------|---------|--|
| DASH NO. | OHMS±2% | |
| 1006750 - 55 | 9.1 K | |
| -56 | 10 K | |
| -57 | 11 K | |
| -58 | 12 K | |
| -59 | 13 K | |
| -143 | 14 K | |
| -60 | 15 K | |
| -61 | 16 K | |
| -145 | 17 K | |
| -62 | 18 K | |
| -146 | 19 K | |
| 1006750 - 63 | 20 K | |

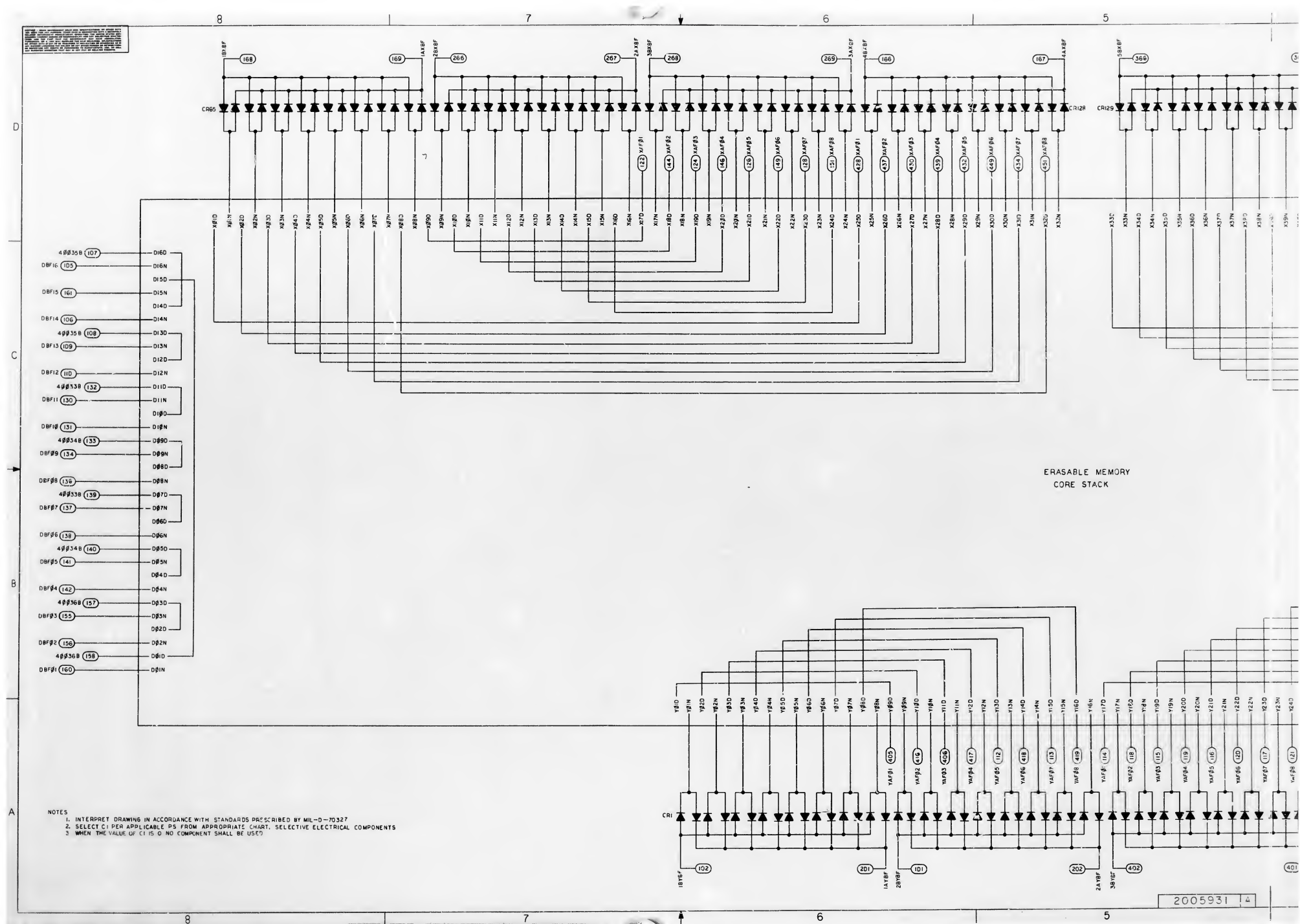
| R3 | | |
|---------------|---------|--|
| DASH NO. | OHMS±2% | |
| 1006750 - 157 | 53.5 K | |
| -74 | 56 K | |
| -158 | 59 K | |
| -75 | 62 K | |
| -159 | 65 K | |
| -76 | 68 K | |
| -160 | 71.5 K | |
| -77 | 75 K | |
| -161 | 78.5 K | |
| -78 | 82 K | |
| -162 | 86.5 K | |
| -79 | 91 K | |
| -163 | 95.5 K | |
| -80 | 100 K | |
| -164 | 105 K | |
| -81 | 110 K | |
| -165 | 115 K | |
| -82 | 120 K | |
| -166 | 125 K | |
| -83 | 130 K | |
| -167 | 140 K | |
| 1006750 - 84 | 150 K | |

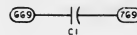
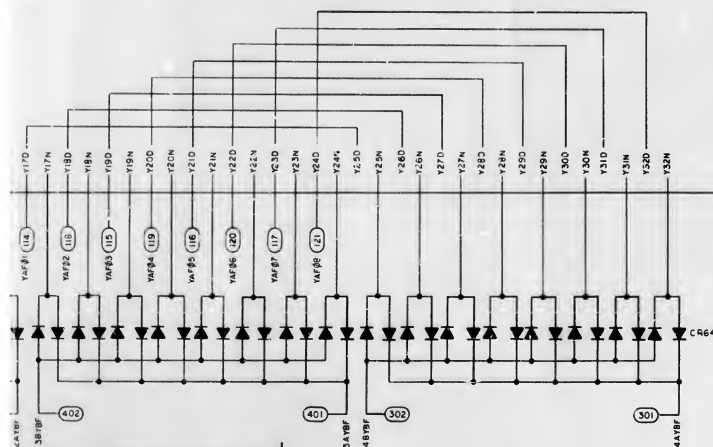
| R2, R3, R4, R6, R7, R8, R9 AND R10 | | | |
|------------------------------------|--------|---------------|--------|
| PART NO. | Ω ± 1% | PART NO. | Ω ± 1% |
| 1010733 - 121 | 511 | 1010733 - 313 | 5110 |
| -125 | 536 | -317 | 5360 |
| -128 | 556 | -320 | 5560 |
| -133 | 590 | -323 | 5760 |
| -136 | 612 | -325 | 5900 |
| -141 | 649 | -328 | 6120 |
| -144 | 673 | -330 | 6260 |
| -149 | 715 | -333 | 6490 |
| -153 | 750 | -336 | 6730 |
| -156 | 777 | -341 | 7150 |
| -160 | 816 | -345 | 7500 |
| -165 | 866 | -348 | 7770 |
| -169 | 909 | -352 | 8160 |
| -173 | 953 | -355 | 8450 |
| -176 | 988 | -357 | 8660 |
| -178 | 1010 | -361 | 9090 |
| -181 | 1050 | -365 | 9530 |
| -185 | 1100 | -368 | 9880 |
| -189 | 1150 | -370 | 10100 |
| -192 | 1200 | -373 | 10500 |
| -195 | 1240 | -377 | 11000 |
| -199 | 1300 | -381 | 11500 |
| -204 | 1360 | -384 | 12000 |
| -208 | 1470 | -387 | 12400 |
| -213 | 1540 | -391 | 13000 |
| -216 | 1600 | -395 | 13800 |
| -221 | 1690 | -401 | 14700 |
| -225 | 1780 | -405 | 15400 |
| -230 | 1890 | -408 | 16000 |
| -234 | 1980 | -413 | 16900 |
| -239 | 2100 | -417 | 17800 |
| -243 | 2210 | -420 | 18400 |
| -246 | 2290 | -422 | 18900 |
| -250 | 2400 | -426 | 19800 |
| -254 | 2520 | -428 | 20300 |
| -259 | 2670 | -431 | 21000 |
| -264 | 2840 | -435 | 22100 |
| -269 | 3010 | -438 | 22900 |
| -273 | 3160 | -442 | 24000 |
| -277 | 3320 | -446 | 25200 |
| -280 | 3440 | -451 | 26700 |
| -284 | 3510 | -456 | 28400 |
| -287 | 3740 | -461 | 30100 |
| -291 | 3920 | -465 | 31600 |
| -295 | 4120 | -469 | 33200 |
| -298 | 4270 | -472 | 34400 |
| -302 | 4480 | -476 | 36100 |
| -305 | 4640 | -479 | 37400 |
| -308 | 4810 | -483 | 39200 |
| 1010733 - 310 | 4930 | 1010733 - 487 | 41200 |

| C2 | | | |
|--------------|-------|--------|--|
| DASH NO. | VALUE | TOL | |
| 1006793 - 37 | 10 | ± 2.5% | |
| -38 | 11 | ± 2.5% | |
| -39 | 12 | ± 2.5% | |
| -40 | 13 | ± 2.5% | |
| -41 | 15 | ± 2.5% | |
| -42 | 16 | ± 2.5% | |
| -43 | 18 | ± 2.5% | |
| -44 | 20 | ± 2.5% | |
| -45 | 22 | ± 2.5% | |
| -46 | 24 | ± 2.5% | |
| -47 | 27 | ± 2.5% | |
| -48 | 30 | ± 2.5% | |
| -49 | 33 | ± 2.5% | |
| -50 | 36 | ± 2.5% | |
| -51 | 39 | ± 2.5% | |
| -52 | 43 | ± 2.5% | |
| -53 | 47 | ± 2.5% | |
| -54 | 51 | ± 2.5% | |
| -55 | 56 | ± 2.5% | |
| -56 | 62 | ± 2.5% | |
| -57 | 68 | ± 2.5% | |
| -58 | 75 | ± 2.5% | |
| -59 | 82 | ± 2.5% | |
| -60 | 91 | ± 2.5% | |
| 1006793 - 61 | 100 | ± 2.5% | |

| C2 (CONT) | | | |
|---------------|-------|---------|--|
| DASH NO. | VALUE | TOL | |
| 1006793 - 91 | 0.5 | ± 0.25% | |
| -92 | 1.5 | ± 0.25% | |
| -93 | 2.2 | ± 0.25% | |
| -94 | 3.0 | ± 0.25% | |
| -95 | 3.9 | ± 0.25% | |
| -96 | 4.7 | ± 0.25% | |
| -97 | 5.6 | ± 0.25% | |
| -98 | 6.8 | ± 0.25% | |
| -99 | 7.5 | ± 0.25% | |
| -100 | 8.2 | ± 0.25% | |
| 1006793 - 101 | 9.1 | ± 0.25% | |

| | | | |
|------------------------------------------------|-------------------------|-----------------------------|-----------------------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIG. NO. |
| LIST OF MATERIALS | | | |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| SCHEMATIC CLOCK OSCILLATOR MODULE NO. B7 | | | |
| NIT APPROVAL DATE BY | | CODE IDENT NO. 80230 D | NASA DRAWING NO. 2005930 |
| APPLICATION | | SCALE NONE | SHEET 3 OF 3 |



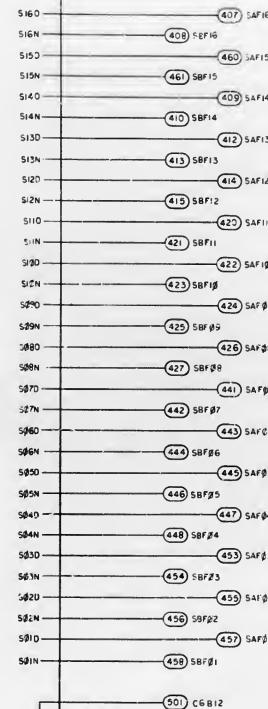
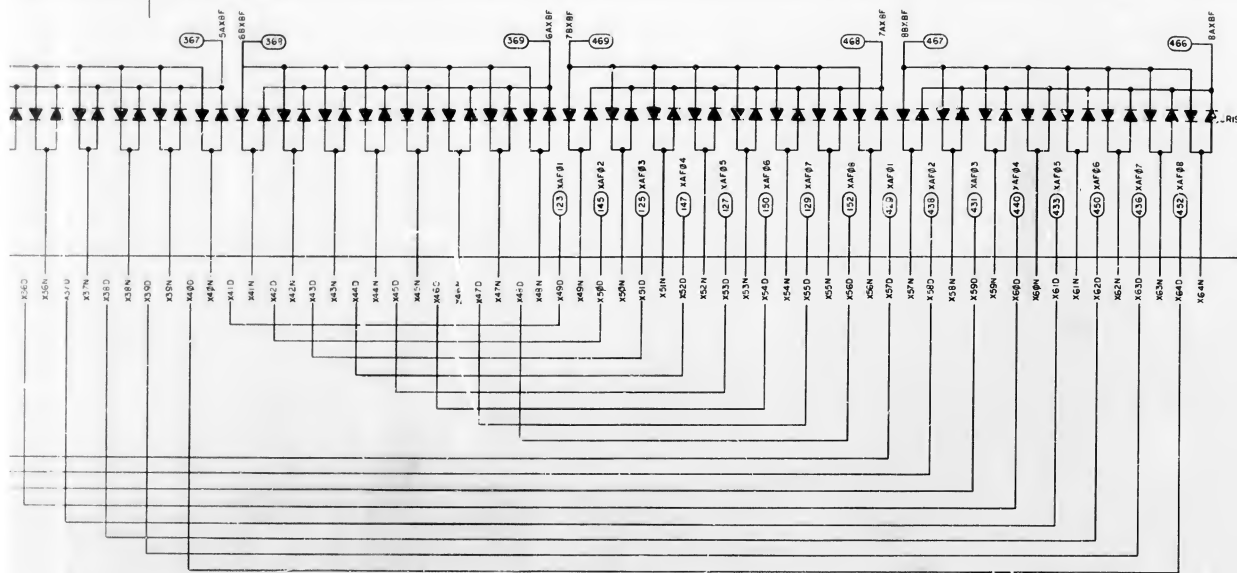


| PART NO. | VAL UUF |
|------------|---------|
| 1006777-1 | 10 |
| ↓ -15 | 150 |
| ↓ -18 | 330 |
| ↓ -20 | 470 |
| ↓ -22 | 680 |
| 1006777-23 | 820 |
| SEE NOTE 3 | 0 |
| 1006777-16 | 220 |
| 1006777-17 | 270 |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|-----------|-------------|----------------------------|-------|------|--------|
| CRI-CR192 | 2004183-001 | 0100E | | | |
| EMI | 2005307 | ELASAB F MEM CORE STACK | | | |
| CI | SEE NOTE 2 | CAPACITOR | | 10 % | |

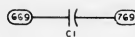
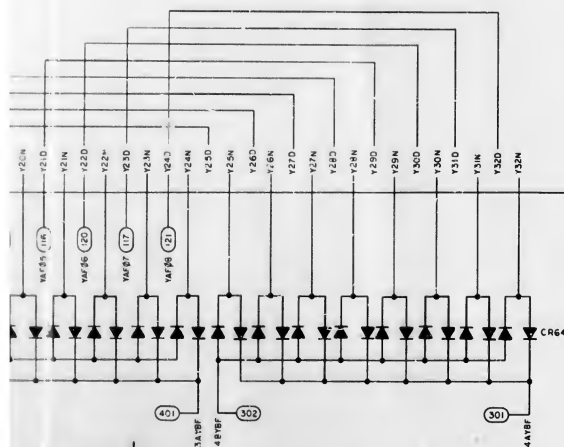
| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| QTY #00 | PART IDENTIFYING NO | MATERIAL OR NOTE | REMARKS OR DISC |
| | | LIST OF MATERIALS | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE AS FOLLOWS: FRACTIONAL VALUES ARE TO CHAIN TOLERANCES ON POSITIONS: DECIMAL: .0005 AND .0001 DO NOT START THIS DRAWING WITHOUT MATERIAL. | | MIT INSTRUMENTATION LAB MANAGED SPACE HOUSTON, TEXAS SCHEMATIC DRAWN: <i>John</i> CHECKED: <i>John</i> APPROVED: <i>John</i> APPROVED: <i>John</i> DATE: <i>1/16</i> CODE: <i>00320</i> | |
| MIT ASBY | USED ON | ERASABLE MEMO | |
| APPLICATION | | DATE SHPT NO SUR 00320 J 2 INVS. NAME NAME NONE | |

| REVISIONS | | | | | |
|-----------|----------|-----------------|----------|-----|----------|
| REV | DATE | DESCRIPTION | BY | CHK | APPROVED |
| A | 01/11/84 | INITIAL RELEASE | 77431204 | | 8747 LGA |



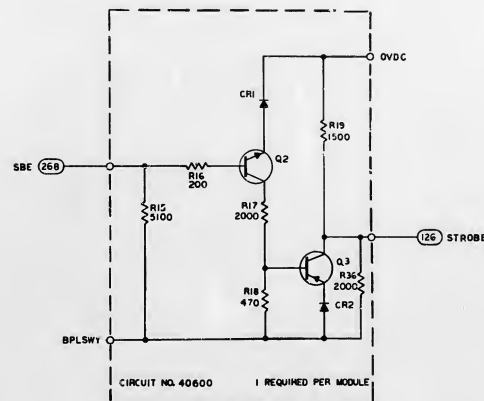
REF DWG 2003111
ERASABLE MEMORY MODULE

| REF DES | PART NO | DESCRIPTION | VALUE | TOL | RATING |
|-----------|-------------|-------------|-------|------|--------|
| CR1-ER100 | 2004183-001 | 0.000 | | | |
| EM1 | 2005007 | 0.000 | | | |
| CI | SEE NOTE 2 | CAPACITOR | | 10 % | |



| CI | |
|-------------|-------|
| PART NO. | VALUE |
| 10.06777-1 | 10 |
| 1 | 15 |
| -18 | 330 |
| -20 | 470 |
| -22 | 680 |
| 10.06777-23 | 820 |
| SEE NOTE 3 | 0 |
| 10.06777-16 | 220 |
| 10.06777-17 | 270 |

| | | | | |
|------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------|-----------------------------|--------|
| QUANTITY | PART OR IDENTIFICATION NO | MATERIAL OR NOTES | NOMENCLATURE OR DESCRIPTION | FIG NO |
| | | | | |
| REF DWG 2003111 ERASABLE MEMORY MODULE | | | | |
| DESIGNED BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> DATE: 01/11/84 | | DRAWING NO: 2005931 SHEET 1 OF 1 | | |



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. RESISTOR VALUES SHALL BE IN OHMS UNLESS OTHERWISE SPECIFIED
3. CAPACITOR VALUES SHALL BE IN MICROFARADS UNLESS OTHERWISE SPECIFIED
4. NOMINAL VALUES ARE TO BE SELECTED BY ELECTRICAL TEST, CHART A AND B
5. ONE TWO OR THREE DIODES TO BE SELECTED BY ELECTRICAL TEST

| | | | | | |
|-------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON | | 8117 INSTRUMENTATION LAB CHANGING | | MANNED SPACEPORT CENTER HOUSTON TEXAS | |
| FRACTIONS DECIMALS ANGLES | | DRAWN <i>[Signature]</i> DATE <i>2/28/68</i> CHECKED <i>[Signature]</i> DATE <i>11/10/68</i> APPROVED <i>[Signature]</i> APPROVAL <i>[Signature]</i> | | SCHEMATIC SENSE AMPLIFIER MODULE ERASABLE MEMORY B13 | |
| DO NOT SCALE THIS DRAWING WATERLINE | | NEXT TREATMENT <i>11</i> NEXT TREATMENT <i>11</i> AREA FINISH <i>11</i> SEC <i>11</i> | | CODE IDENT NO SIZE 80230 E 2005932 | |
| NEXT ASBY | | USED ON | | NAME DRAWING FILE 2005932 | |

| CHART B | |
|------------------|------------|
| R23, R27 AND R32 | |
| PART NO. | VALUE |
| 1006.750 | 32 1000 |
| | - 33 1100 |
| | - 34 1200 |
| | - 35 1300 |
| | - 36 1500 |
| | - 37 1600 |
| | - 38 1800 |
| | - 39 2000 |
| | - 40 2200 |
| | - 41 2400 |
| | - 42 2700 |
| | - 43 3000 |
| | - 44 3300 |
| | - 45 3600 |
| | - 46 3900 |
| | - 47 4300 |
| | - 48 4700 |
| | - 49 5100 |
| | - 119 1400 |
| | - 121 1700 |
| | - 122 1900 |
| | - 123 2100 |
| | - 124 2300 |
| | - 125 2450 |
| | - 126 2850 |
| | - 127 3150 |
| | - 128 3450 |
| | - 129 3750 |
| 1006.750 | 150 4100 |

| COMP PREFIX NO. | A | | B | | C | | D | | E | | F | | G | | H | | I | | J | |
|-----------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| | SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. |
| 7 | SAF 01 | 259 | OVDC | 154 | SBF 01 | 253 | SAF 02 | 152 | OVDC | 251 | SBF 02 | 151 | 06E11A | 252 | VYE 2 | 265 | SA02 | 156 | 06E01A | 259 |
| 6 | SAF 03 | 248 | OVDC | 147 | SBF 03 | 246 | SAF 04 | 145 | OVDC | 244 | SBF 04 | 143 | 06E12A | 245 | VYE 2 | 265 | SA04 | 150 | 06E02A | 248 |
| 5 | SAF 05 | 241 | OVDC | 140 | SBF 05 | 239 | SAF 06 | 138 | OVDC | 237 | SBF 06 | 136 | 06E13A | 238 | VYE 2 | 265 | SA06 | 142 | 06E03A | 242 |
| 4 | SAF 07 | 225 | OVDC | 125 | SBF 07 | 223 | SAF 08 | 123 | OVDC | 221 | SBF 08 | 121 | 06E14A | 222 | VYE 1 | 233 | SA08 | 127 | 06E04A | 226 |
| 3 | SAF 09 | 218 | OVDC | 118 | SBF 09 | 216 | SAF 10 | 116 | OVDC | 214 | SBF 10 | 114 | 06E15A | 215 | VYE 1 | 233 | SA10 | 120 | 06E05A | 219 |
| 2 | SAF 11 | 210 | OVDC | 110 | SBF 11 | 209 | SAF 12 | 109 | OVDC | 207 | SBF 12 | 107 | 06E16A | 208 | VYE 1 | 233 | SA12 | 113 | 06E06A | 212 |
| 1 | SAF 13 | 204 | OVDC | 104 | SBF 13 | 203 | SAF 14 | 102 | OVDC | 201 | SBF 14 | 101 | 06E17A | 202 | VYE 1 | 233 | SA14 | 105 | 06E07A | 205 |
| 8 | SAF 15 | 262 | OVDC | 162 | SBF 15 | 261 | SAF 16 | 158 | OVDC | 258 | SBF 16 | 157 | 06E18A | 260 | VYE 2 | 265 | SA16 | 164 | 06E08A | 263 |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-------------|-------|--------|--------|
| R1 | 1006750-42 | RESISTOR | 2700 | ± 2 % | 1/4 W |
| R2 | -42 | | 2700 | | |
| R3 | -42 | | 2700 | | |
| R4 | -42 | | 2700 | | |
| R5 | -24 | | 470 | | |
| R6 | -24 | | 470 | | |
| R7 | -24 | | 470 | | |
| R8 | 1006750-24 | | 470 | | |
| R9 | SEE CHART A | | NOM | | |
| R10 | SEE CHART A | | NOM | | |
| R11 | 1006750-32 | | 1000 | | |
| R12 | -32 | | 2000 | | |
| R13 | -32 | | 1000 | | |
| R14 | -32 | | 3000 | | |
| R15 | -32 | | 1000 | | |
| R16 | -15 | | 200 | | |
| R17 | -32 | | 2000 | | |
| R18 | -24 | | 470 | | |
| R19 | -36 | | 1500 | | |
| R20 | -36 | | 1500 | | |
| R21 | -39 | | 4700 | | |
| R22 | 1006750-24 | | 200 | | |
| R23 | SEE CHART A | | NOM | | |
| R24 | 1006750-25 | | 510 | | |
| R25 | 1006750-36 | | 1500 | | |
| R26 | 1006750-32 | | 1000 | | |
| R27 | SEE CHART B | | NOM | | |
| R28 | 100 6750-32 | | 1000 | | |
| R29 | 1006750-39 | | 2000 | | |
| R30 | 1006750-12 | | 110 | | |
| R31 | 1006750-43 | | 3000 | | |
| R32 | SEE CHART B | | NOM | | |
| R33 | 1006750-32 | | 1000 | | |
| R34 | 1006750-39 | | 2000 | | |
| R35 | 1006750-12 | | 150 | | |
| R36 | 1006750-38 | | 3000 | | |
| R37 | 1006750-65 | | 20K | | |
| R38 | 1006750-65 | RESISTOR | 20K | ± 2 % | 1/4 W |
| C1 | 1006755-65 | CAPACITOR | 1 uF | ± 10 % | 35V DC |
| C2 | 1006755-65 | CAPACITOR | 1 uF | ± 10 % | 35V DC |
| C3 | 1006755-65 | CAPACITOR | 1 uF | ± 10 % | 35V DC |
| C4 | 1006755-65 | CAPACITOR | 1 uF | ± 10 % | 35V DC |
| CR16 | Z004183-001 | DIODE | | | |
| CR17 | Z004183-001 | | | | |
| CR1 | Z004183-001 | | | | |
| CR2 | Z004183-001 | | | | |
| CR3 | Z004183-001 | | | | |
| CR4 | Z004183-001 | | | | |
| CR5 | Z004183-001 | | | | |
| CR6 | Z004183-001 | | | | |
| CR7 | Z004183-001 | | | | |
| CR8 | Z004183-001 | | | | |
| CR9 | Z004182-002 | | | | |
| CR10 | Z004183-001 | | | | |
| CR11 | Z004183-001 | | | | |
| CR12 | Z004183-001 | | | | |
| CR13 | Z004183-001 | | | | |
| CR14 | Z004183-001 | | | | |
| CR15 | Z004183-001 | DIODE | | | |
| Q1 | Z004008-005 | TRANSISTOR | | | |
| Q2 | Z004184-001 | | | | |
| Q3 | Z004004-005 | | | | |
| Q4 | Z004004-005 | | | | |
| Q5 | Z004184-001 | | | | |
| Q6 | Z004184-001 | | | | |
| Q7 | Z004004-002 | | | | |
| Q8 | Z004184-001 | | | | |
| Q9 | Z004184-001 | | | | |
| Q10 | Z004004-002 | | | | |
| Q11 | Z004184-001 | TRANSISTOR | | | |
| T1 | 1006293 | TRANSFORMER | | | |
| T2 | 1006293 | TRANSFORMER | | | |
| SA1 | Z004003-001 | SENSE AMPL | | | |
| SA2 | Z004003-001 | | | | |

| | | | | | | | |
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| DTG RECD | | PART OR IDENTIFYING NO | | NONCULATURE OR DISCRIPTION | | FILE NO | |
| | | | | LIST OF MATERIALS | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS .005 + .008 .010 + .015 .015 + .020 .020 + .025 .025 + .030 .030 + .035 .035 + .040 .040 + .045 .045 + .050 .050 + .055 .055 + .060 .060 + .065 .065 + .070 .070 + .075 .075 + .080 .080 + .085 .085 + .090 .090 + .095 .095 + .100 .100 + .105 .105 + .110 .110 + .115 .115 + .120 .120 + .125 .125 + .130 .130 + .135 .135 + .140 .140 + .145 .145 + .150 .150 + .155 .155 + .160 .160 + .165 .165 + .170 .170 + .175 .175 + .180 .180 + .185 .185 + .190 .190 + .195 .195 + .200 .200 + .205 .205 + .210 .210 + .215 .215 + .220 .220 + .225 .225 + .230 .230 + .235 .235 + .240 .240 + .245 .245 + .250 .250 + .255 .255 + .260 .260 + .265 .265 + .270 .270 + .275 .275 + .280 .280 + .285 .285 + .290 .290 + .295 .295 + .300 .300 + .305 .305 + .310 .310 + .315 .315 + .320 .320 + .325 .325 + .330 .330 + .335 .335 + .340 .340 + .345 .345 + .350 .350 + .355 .355 + .360 .360 + .365 .365 + .370 .370 + .375 .375 + .380 .380 + .385 .385 + .390 .390 + .395 .395 + .400 .400 + .405 .405 + .410 .410 + .415 .415 + .420 .420 + .425 .425 + .430 .430 + .435 .435 + .440 .440 + .445 .445 + .450 .450 + .455 .455 + .460 .460 + .465 .465 + .470 .470 + .475 .475 + .480 .480 + .485 .485 + .490 .490 + .495 .495 + .500 .500 + .505 .505 + .510 .510 + .515 .515 + .520 .520 + .525 .525 + .530 .530 + .535 .535 + .540 .540 + .545 .545 + .550 .550 + .555 .555 + .560 .560 + .565 .565 + .570 .570 + .575 .575 + .580 .580 + .585 .585 + .590 .590 + .595 .595 + .600 .600 + .605 .605 + .610 .610 + .615 .615 + .620 .620 + .625 .625 + .630 .630 + .635 .635 + .640 .640 + .645 .645 + .650 .650 + .655 .655 + .660 .660 + .665 .665 + .670 .670 + .675 .675 + .680 .680 + .685 .685 + .690 .690 + .695 .695 + .700 .700 + .705 .705 + .710 .710 + .715 .715 + .720 .720 + .725 .725 + .730 .730 + .735 .735 + .740 .740 + .745 .745 + .750 .750 + .755 .755 + .760 .760 + .765 .765 + .770 .770 + .775 .775 + .780 .780 + .785 .785 + .790 .790 + .795 .795 + .800 .800 + .805 .805 + .810 .810 + .815 .815 + .820 .820 + .825 .825 + .830 .830 + .835 .835 + .840 .840 + .845 .845 + .850 .850 + .855 .855 + .860 .860 + .865 .865 + .870 .870 + .875 .875 + .880 .880 + .885 .885 + .890 .890 + .895 .895 + .900 .900 + .905 .905 + .910 .910 + .915 .915 + .920 .920 + .925 .925 + .930 .930 + .935 .935 + .940 .940 + .945 .945 + .950 .950 + .955 .955 + .960 .960 + .965 .965 + .970 .970 + .975 .975 + .980 .980 + .985 .985 + .990 .990 + .995 .995 + 1.000 1.000 + 1.005 1.005 + 1.010 1.010 + 1.015 1.015 + 1.020 1.020 + 1.025 1.025 + 1.030 1.030 + 1.035 1.035 + 1.040 1.040 + 1.045 1.045 + 1.050 1.050 + 1.055 1.055 + 1.060 1.060 + 1.065 1.065 + 1.070 1.070 + 1.075 1.075 + 1.080 1.080 + 1.085 1.085 + 1.090 1.090 + 1.095 1.095 + 1.100 1.100 + 1.105 1.105 + 1.110 1.110 + 1.115 1.115 + 1.120 1.120 + 1.125 1.125 + 1.130 1.130 + 1.135 1.135 + 1.140 1.140 + 1.145 1.145 + 1.150 1.150 + 1.155 1.155 + 1.160 1.160 + 1.165 1.165 + 1.170 1.170 + 1.175 1.175 + 1.180 1.180 + 1.185 1.185 + 1.190 1.190 + 1.195 1.195 + 1.200 1.200 + 1.205 1.205 + 1.210 1.210 + 1.215 1.215 + 1.220 1.220 + 1.225 1.225 + 1.230 1.230 + 1.235 1.235 + 1.240 1.240 + 1.245 1.245 + 1.250 1.250 + 1.255 1.255 + 1.260 1.260 + 1.265 1.265 + 1.270 1.270 + 1.275 1.275 + 1.280 1.280 + 1.285 1.285 + 1.290 1.290 + 1.295 1.295 + 1.300 1.300 + 1.305 1.305 + 1.310 1.310 + 1.315 1.315 + 1.320 1.320 + 1.325 1.325 + 1.330 1.330 + 1.335 1.335 + 1.340 1.340 + 1.345 1.345 + 1.350 1.350 + 1.355 1.355 + 1.360 1.360 + 1.365 1.365 + 1.370 1.370 + 1.375 1.375 + 1.380 1.380 + 1.385 1.385 + 1.390 1.3 | | | | | | | |

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| REVISIONS | | |
|-----------|-------------|--------|
| REV. | DESCRIPTION | DATE |
| 1 | 2005934 | 1/1/00 |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|------------|-------------|--------|------|--------|
| R1 | 1006750-49 | RESISTOR | 5100 | ±2% | 1/4 W |
| R2 | 1006750-32 | | 1000 | ±2% | |
| R3 | 1006788-11 | | 39 | ±1% | |
| R4 | 1006750-49 | | 5100 | ±2% | |
| R5 | SEE NOTE 3 | | | | |
| R6 | 1006750-49 | | 5100 | | |
| R7 | -24 | | 470 | | |
| R8 | -39 | | 2000 | | |
| R9 | -29 | | 750 | | |
| R10 | -32 | | 1000 | | |
| R11 | -49 | | 5100 | | |
| R11 | 1006750-32 | | 1000 | ±2% | |
| R12 | 1006788-8 | | 20 | ±1% | |
| R13 | 1006750-49 | | 5100 | ±2% | |
| R14 | 1006750-49 | | 5100 | ±2% | |
| R15 | 1006750-49 | | 5100 | ±2% | |
| R16 | 1006750-49 | | 5100 | ±2% | |
| R17 | 1006788-9 | | 27 | ±1% | |
| R18 | SEE NOTE 3 | | | | |
| R19 | 1006750-32 | | 1000 | ±2% | |
| R20 | 1006750-49 | | 5100 | ±2% | |
| R21 | 1006788-11 | | 39 | ±1% | |
| R22 | 1006750-32 | | 1000 | ±2% | |
| R23 | 1006750-49 | | 5100 | ±2% | |
| R24 | 1006788-11 | | 39 | ±1% | |
| R25 | 1006750-49 | | 5100 | ±2% | |
| R26 | 1006750-49 | | 5100 | | |
| R27 | 1006750-49 | | 5100 | | |
| R28 | 1006788-9 | | 27 | | |
| R29 | SEE NOTE 3 | | | | |
| R30 | 1006750-15 | | 200 | | |
| R31 | -15 | | 200 | | |
| R32 | -15 | | 200 | | |
| R33 | -15 | | 200 | | |
| R34 | -15 | | 200 | | |
| R35 | -43 | | 3000 | | |
| R36 | -49 | | 5100 | | |
| R37 | -15 | | 200 | | |
| R38 | -12 | | 150 | | |
| R39 | -18 | | 2000 | | |
| R40 | 1006750-39 | | 2000 | ±2% | 1/4 W |
| R41 | 1006712-3 | RESISTOR | 5000 | | |
| C1 | 1006755-79 | CAPACITOR | 6.8 UF | ±10% | 35 VDC |
| C2 | -32 | | 12 | | 20 |
| C3 | -78 | | 6.8 | | 35 |
| C4 | -32 | | 12 | | 20 |
| C5 | 1006755-79 | | 6.8 UF | ±10% | 35 VDC |
| C7 | 1006755-79 | CAPACITOR | 6.8 UF | ±10% | 35 VDC |
| L1 | 1010406-1 | INDUCTOR | 3.9 UH | | |
| L2 | -8 | | 1.0 | | |
| L3 | -10 | | 2.2 | | |
| L4 | -7 | | 8.2 | | |
| L5 | -7 | | 8.2 | | |
| L6 | -7 | | 8.2 | | |
| L7 | -7 | | 8.2 UH | | |
| L8 | 1010406-7 | | 8.2 UH | | |
| L10 | 1010406-10 | INDUCTOR | 22 UH | | |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-------------|-------|-----|--------|
| CR1 | 2004183-001 | DIODE | | | |
| CR2 | | | | | |
| CR3 | | | | | |
| CR4 | | | | | |
| CR5 | | | | | |
| CR6 | | | | | |
| CR7 | | | | | |
| CR8 | | | | | |
| CR9 | | | | | |
| CR10 | | | | | |
| CR11 | | | | | |
| CR12 | | | | | |
| CR13 | | | | | |
| CR14 | | | | | |
| CR15 | | | | | |
| CR16 | | | | | |
| CR17 | | | | | |
| CR18 | | | | | |
| CR19 | | | | | |
| CR20 | | | | | |
| CR21 | | | | | |
| CR22 | 2004183-001 | DIODE | | | |
| Q1 | 2004184-001 | TRANSISTOR | | | |
| Q2 | 2004184-001 | | | | |
| Q3 | 2004184-001 | | | | |
| Q4 | 2004184-001 | | | | |
| Q5 | 2004004-005 | | | | |
| Q6 | 2004184-001 | | | | |
| Q7 | 2004184-001 | | | | |
| Q8 | 2004184-001 | | | | |
| Q9 | 2004184-001 | | | | |
| Q10 | 2004184-001 | | | | |
| Q11 | 2004004-002 | | | | |
| Q12 | 2004184-001 | | | | |
| Q13 | 2004184-001 | | | | |
| Q14 | 2004184-001 | | | | |
| Q15 | 2004184-001 | | | | |
| Q16 | 2004004-002 | | | | |
| Q17 | 2004184-001 | | | | |
| Q18 | 2004184-001 | TRANSISTOR | | | |
| CR23 | 2004183-001 | DIODE | | | |
| CR24 | | | | | |
| CR25 | | | | | |
| CR26 | | | | | |
| CR27 | | | | | |
| CR28 | | | | | |
| CR29 | | | | | |
| CR30 | | | | | |
| CR31 | | | | | |
| CR32 | | | | | |
| CR33 | 2004183-001 | DIODE | | | |

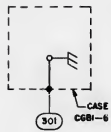
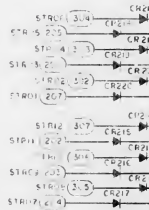
| CHART A | | | |
|-------------------------|-------|-------------|-------|
| R5, R18, R39 ±1%, 1/4 W | | | |
| PART NO. | VALUE | PART NO. | VALUE |
| 1006788-223 | 5.97 | 1006788-209 | 5.05 |
| -224 | 6.04 | -210 | 5.11 |
| -225 | 6.12 | -211 | 5.17 |
| -226 | 6.19 | -212 | 5.23 |
| -227 | 6.26 | -213 | 5.30 |
| -228 | 6.34 | -214 | 5.36 |
| -229 | 6.42 | -215 | 5.42 |
| -230 | 6.49 | -216 | 5.49 |
| -231 | 6.57 | -217 | 5.56 |
| -232 | 6.65 | -218 | 5.62 |
| -233 | 6.73 | -219 | 5.69 |
| -234 | 6.81 | -220 | 5.76 |
| -235 | 6.90 | -221 | 5.83 |
| -236 | 6.98 | 1006788-222 | 5.90 |
| -237 | 7.06 | | |
| -238 | 7.15 | | |
| -239 | 7.23 | | |
| -240 | 7.32 | | |
| -241 | 7.41 | | |
| -242 | 7.50 | | |
| -243 | 7.59 | | |
| -244 | 7.68 | | |
| -245 | 7.77 | | |
| -246 | 7.87 | | |
| -247 | 7.96 | | |
| -248 | 8.05 | | |
| -249 | 8.16 | | |
| -250 | 8.25 | | |
| -251 | 8.35 | | |
| -252 | 8.45 | | |
| -253 | 8.56 | | |
| -254 | 8.66 | | |
| 1006788-255 | 8.76 | | |

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|-------------|
| QTY REQD | PART OR IDENTIFYING NO. | DESCRIPTION OR IDENTIFICATION | UNIT NO. |
| LIST OF MATERIALS | | | |
| INSTRUMENTATION LAB MANNEO SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC, CRASABLE DRIVER MODULE MODULE NO B9 AND B10 | | | |
| DRAWN BY: J. L. WATKINS CHECKED BY: J. L. WATKINS APPROVAL: J. L. WATKINS | | DATE: 1/1/00 CODE: 80230 E SIZE: 2005934 | |
| HEAT TREATMENT TYPICAL: 150°C APPROVAL: J. L. WATKINS | | SCALE: 1:1 SHEET: 2 OF 2 | |

2005934 A

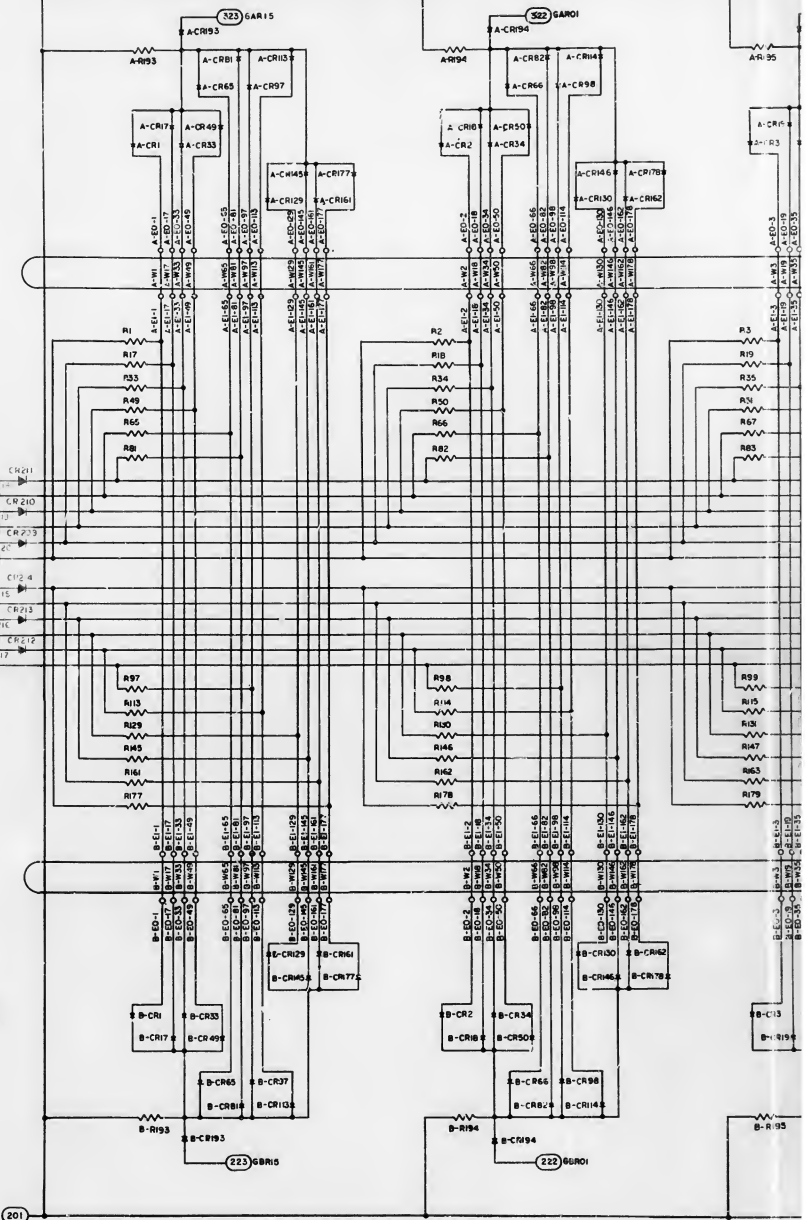
| REF DESIGNATION | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|--------------------|-------------|-------------|-------|------|--------|
| R1 THRU R192 | 1006750-32 | RESISTOR | 820 | ± 2% | 1/W |
| A-R193 THRU A-R208 | 1006750-32 | RESISTOR | 1000 | ± 2% | 1/W |
| B-R193 THRU B-R208 | 1006750-32 | RESISTOR | 1000 | ± 2% | 1/W |
| A-CR1 THRU A-CR208 | 2004483-002 | DIODE | | | |
| B-CR1 THRU B-CR208 | 2004483-002 | DIODE | | | |
| U1 THRU U12 | 1006820-1 | CORE | | | |
| U14A6 U15A U16A | 2004830-01 | OPAMP | | | |

| SIGNAL IDENTIFICATION CHART | | | | | | | | | |
|-----------------------------|--------|--------|--------|--------|--------|--------|------|--|--|
| MODULE NUMBER | | | | | | | | | |
| PIN | A1 | B2 | B3 | A4 | B5 | B6 | | | |
| 120 | X81AN | IN7AR | IN7AR | IN7AS | IN7AS | X81AN | IN7A | | |
| 121 | X81BN | IN7BD | IN7BD | IN7BD | IN7BD | IN7B | IN7B | | |
| 122 | X81BNB | IN7BR | X81BNB | IN7BS | X81BNB | IN7B | | | |
| 123 | X81BTR | IN7BTR | IN7BTR | IN7BTR | IN7BTR | IN7BTR | | | |
| 119 | X07CN | IN07CN | X07CN | IN07CS | X07CN | IN07 | | | |
| 118 | X06FN | IN06FN | X06FN | IN06FS | X06FN | IN06F | | | |
| 117 | X06FN | IN06FN | X06FN | IN06FS | X06FN | IN06F | | | |
| 116 | X05FN | IN05FN | X05FN | IN05FS | X05FN | IN05F | | | |
| 115 | X05CN | IN05CN | X05CN | IN05CS | X05CN | IN05C | | | |
| 114 | X04FN | IN04FN | X04FN | IN04FS | X04FN | IN04F | | | |
| 113 | X04CN | IN04CN | X04CN | IN04CS | X04CN | IN04C | | | |
| 112 | X03FN | IN03FN | X03FN | IN03FS | X03FN | IN03F | | | |
| 111 | X03CN | IN03CN | X03CN | IN03CS | X03CN | IN03C | | | |
| 110 | X02FN | IN02FN | X02FN | IN02FS | X02FN | IN02F | | | |
| 109 | X02CN | IN02CN | X02CN | IN02CS | X02CN | IN02C | | | |
| 108 | X01FN | IN01FN | X01FN | IN01FS | X01FN | IN01F | | | |
| 107 | X01CN | IN01CN | X01CN | IN01CS | X01CN | IN01C | | | |
| 106 | IN05TR | IN05TR | IN05TR | IN05TS | IN05TR | IN05T | | | |
| 105 | IN04TR | IN04TR | IN04TR | IN04TS | IN04TR | IN04T | | | |
| 104 | IN03TR | IN03TR | IN03TR | IN03TS | IN03TR | IN03T | | | |
| 103 | IN02TR | IN02TR | IN02TR | IN02TS | IN02TR | IN02T | | | |
| 102 | IN01TR | IN01TR | IN01TR | IN01TS | IN01TR | IN01T | | | |
| 101 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 100 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 99 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 98 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 97 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 96 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 95 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 94 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 93 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 92 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 91 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 90 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 89 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 88 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 87 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 86 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 85 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
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| 83 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 82 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 81 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 80 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
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| 74 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
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| 72 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 71 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 70 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
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| 64 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 63 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 62 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 61 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 60 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 59 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 58 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 57 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 56 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 55 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 54 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 53 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 52 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 51 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 50 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 49 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 48 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 47 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 46 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 45 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 44 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 43 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 42 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
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| 24 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 23 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 22 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 21 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 20 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 19 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 18 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 17 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 16 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 15 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 14 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 13 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 12 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 11 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 10 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 9 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 8 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 7 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 6 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 5 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 4 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 3 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 2 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |
| 1 | IN00TR | IN00TR | IN00TR | IN00TS | IN00TR | IN00T | | | |



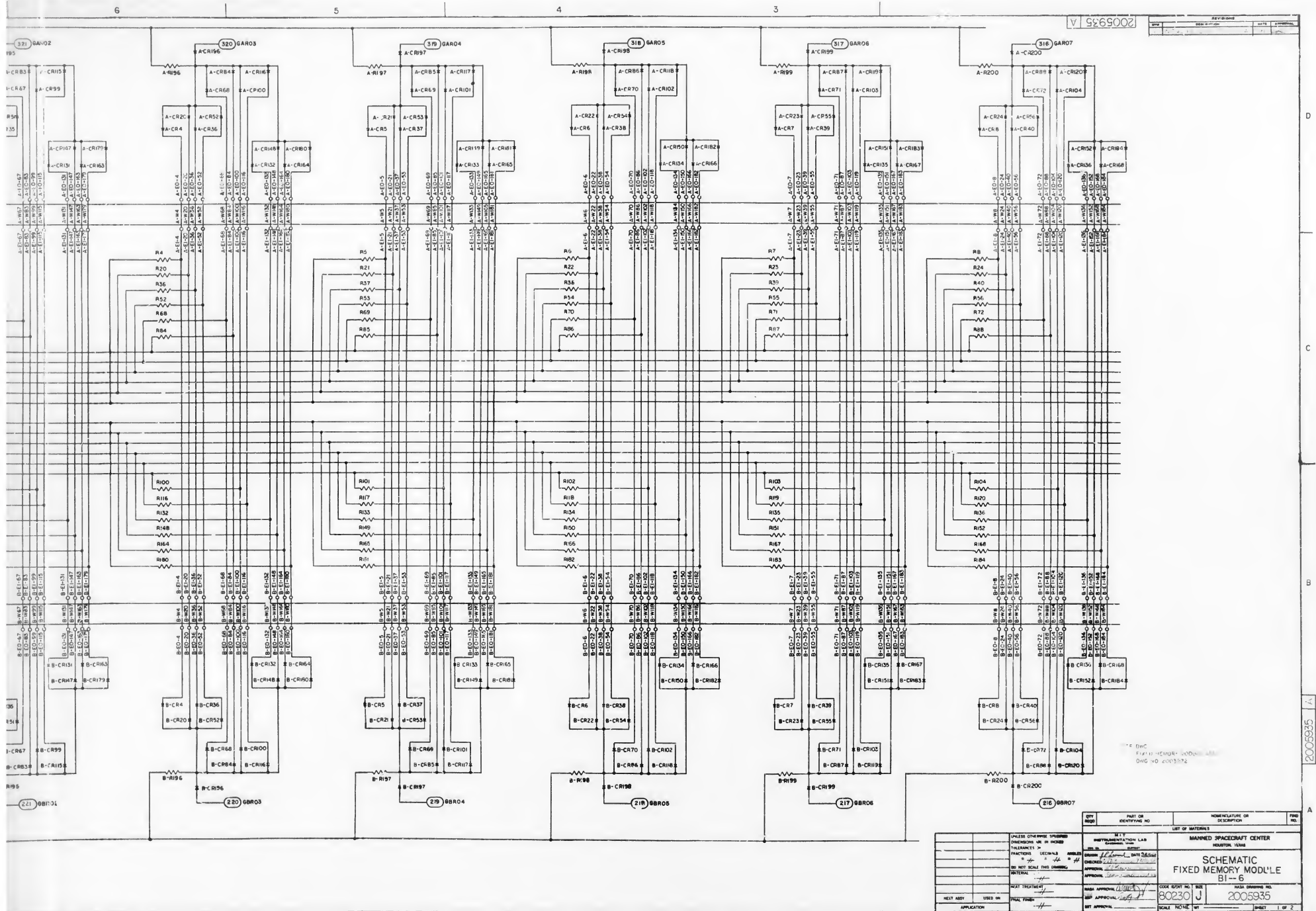
NOTES

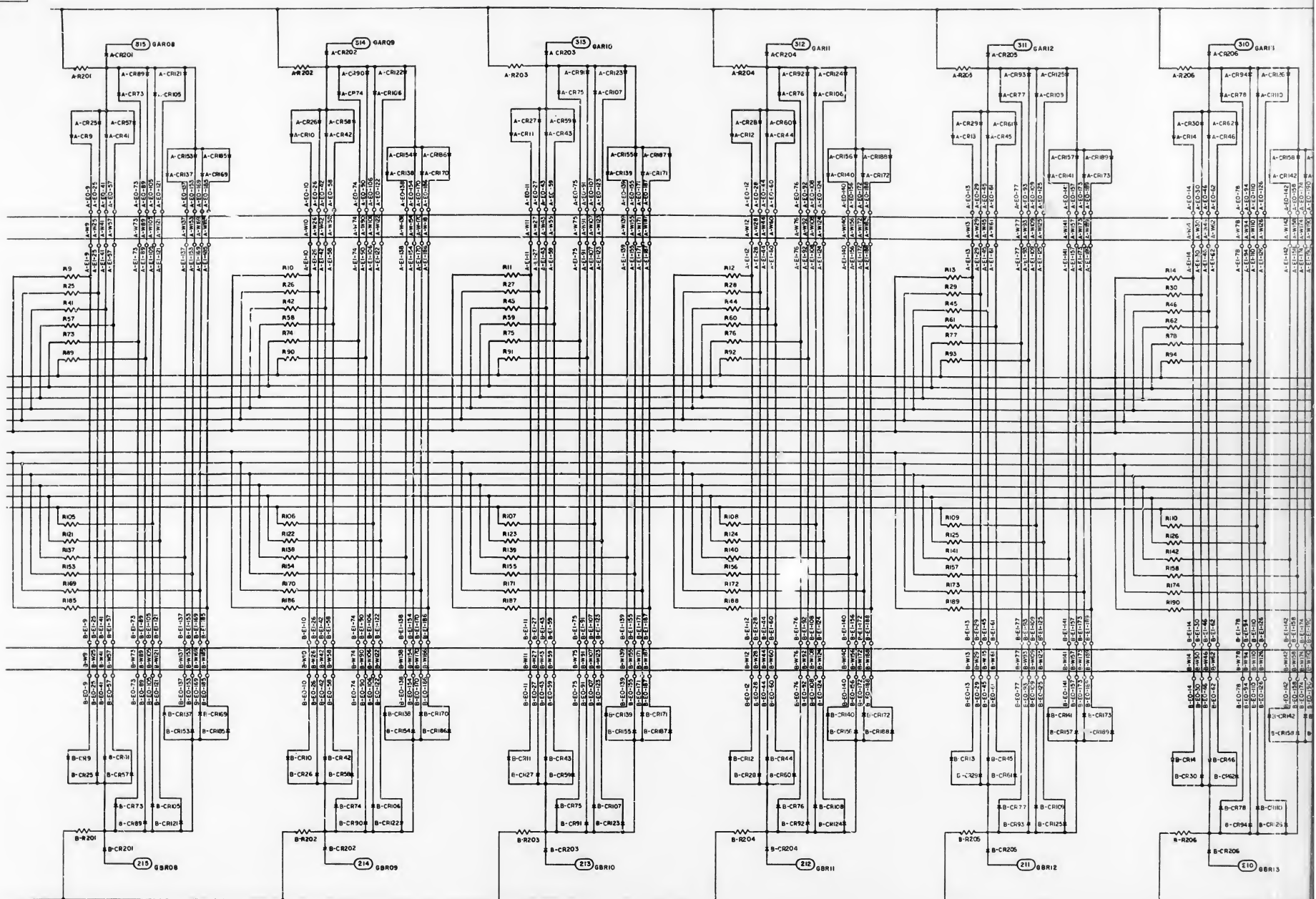
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PREFIX LETTER OF REFERENCE DESIGNATIONS OF DIODES DENOTES STRUNG NUMBER
3. "BAR" WIRES(SEE INHIBIT WIRING) DO NOT THREAD FIRST CORE AND DO THROUGH LAST CORE
4. A AND B DIODES OF THE SAME REF DESIGNATION NUMBER MUST BE MATED PAIRS
5. SENSE WIRING THRU CORES IN ACCORDANCE WITH APPLICABLE MODULE DECK
6. INHIBIT WIRING THRU CORES PER DWG 2005017
7. * DENOTES RELATIVE WIRE DIRECTION

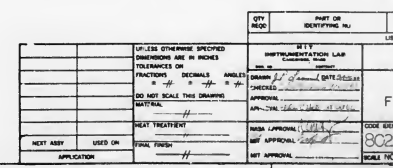


—SEE TABLE FOR SIGNAL

[illegible]









| | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|--|---------------------------------------------|--|----------|--|
| QTY REQD | | PART OR IDENTIFYING NO | | NOMENCLATURE OR DESCRIPTION | | FMS 7 | |
| LIST OF MATERIALS | | | | | | | |
| MATERIALS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES HOLE DIA .0005 DRILL DIA .0005 DO NOT SCALE THIS DRAWING MATERIAL | | | | MANAGED SPACECRAFT CENTER HOUSTON, TEXAS | | | |
| | | | | SCHEMATIC FIXED MEMORY MODULE BI-6 | | | |
| NEXT TREATMENT USED ON | | | | COOL IDENT NO & SIZE | | | |
| APPLICATION | | | | PMSA DRAWING NO. | | | |
| FINAL FISH | | | | 2005935 | | | |
| OFF APPROVAL | | | | SCALE NONE VP | | | |
| | | | | SHEET 2 OF 2 | | | |

| | | | |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------|------------------------|
| ITEM NO. | INSTR. IDENTIFYING NO. | NONEXHAUSTIVE OR DESCRIPTION | FOUND NO. |
| MAY 11 INSTRUMENTATION LAB CAMBRIDGE, MASS. | | LIST OF MATERIALS MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS | |
| DATA 1 <i>10/20/60</i> CHECKED <i>10/20/60</i> APPROVED <i>10/20/60</i> APPROVED <i>10/20/60</i> | SCHEMATIC AGC POWER SUPPLY A30-31 | | |
| APPROVED <i>10/20/60</i> REB <i>10/20/60</i> | CODE IDENT NO. 8023-30 | SIZE E | DRAWING NO. 2005936 |
| APPROVED <i>10/20/60</i> | SCALE | SHEET 1 OF 2 | |

1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES.
2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
3. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
4. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
5. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
6. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
7. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

| REVISIONS | | | |
|-----------|----------------|----------------|--------|
| REV | DESCRIPTION | BY | DATE |
| 1 | INITIAL DESIGN | W. J. SULLIVAN | 7/1/68 |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|-------------|-------|-----|--------|
| R1 | 1006750 | RESISTOR | NOM | 2% | 1/4 W |
| R2 | 1006750 | | | | |
| R3 | -24 | | 470 | | |
| R4 | -39 | | 2000 | | |
| R5 | -39 | | 2000 | | |
| R6 | -141 | | 11.5K | | |
| R7 | -24 | | 470 | | |
| R8 | -39 | | 2000 | | |
| R9 | -25 | | 50 | | |
| R10 | 1006750-43 | | 3000 | 2% | |
| R11 | 1006750-10 | | 33 | 1% | |
| R12 | 1006750-24 | | 470 | 2% | |
| R13 | -36 | | 1500 | | |
| R14 | -11 | | 130 | | |
| R15 | -64 | | 22K | | |
| R16 | -54 | | 8200 | | |
| R17 | -9 | | 100 | | |
| R18 | -16 | | 220 | | |
| R19 | -65 | | 24K | | |
| R20 | -145 | | 17K | | |
| R21 | -24 | | 470 | | |
| R22 | -43 | | 3000 | | |
| R23 | -32 | | 1000 | | |
| R24 | -32 | | 1000 | | |
| R25 | -32 | | 10K | | |
| R26 | -24 | | 470 | | |
| R27 | -15 | | 200 | | |
| R28 | -15 | | 200 | | |
| R29 | -24 | | 470 | | |
| R30 | 1006750-15 | | 200 | 2% | 1/4 W |
| R31 | 1006750-22 | | 390 | 2% | 1/2 W |
| R32 | 1006750-24 | | 470 | 2% | 1/4 W |
| R33 | 1006750-1 | | 51 | 2% | 1/4 W |
| R34 | 100389-51 | | 620 | 1% | 3 W |
| R35 | 100389-113 | | 3 | 1% | 3 W |
| R36 | 1006750-15 | | 200 | 2% | 1/4 W |
| R37 | 1006330-001 | | 0.12 | 1% | 10 W |
| R38 | 1006330-001 | | 0.12 | 1% | 10 W |
| R39 | 100164-50 | | 1500 | 1% | 1 W |
| R40 | 1006750-43 | | 3000 | 2% | 1/4 W |
| R41 | 100168-23 | | 43 | 2% | 3 W |
| R42 | 1006750-15 | | 200 | 2% | 1/4 W |
| R43 | 1006750-40 | | 2.2K | 2% | 1/4 W |
| R44 | 1006750-15 | | 200 | 2% | 1/4 W |
| R45 | 1006750-39 | | 2000 | 2% | 1/4 W |
| R46 | 1006750-32 | | 1000 | 2% | 1/4 W |
| R47 | 1006750-56 | RESISTOR | 10K | 2% | 1/4 W |

SELECTION CHART FOR R1 & R2

| PART NO. | VALUE |
|------------|-------|
| 1006750-1 | 51 |
| -2 | 56 |
| -3 | 62 |
| -4 | 68 |
| -5 | 75 |
| -6 | 82 |
| -7 | 91 |
| -8 | 100 |
| -9 | 110 |
| -10 | 120 |
| -11 | 130 |
| -12 | 150 |
| -13 | 160 |
| -14 | 180 |
| -15 | 200 |
| -16 | 220 |
| -17 | 240 |
| -18 | 270 |
| -19 | 300 |
| -20 | 330 |
| -21 | 360 |
| -22 | 390 |
| -23 | 430 |
| -24 | 470 |
| 1006750-25 | 510 |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|----------------|-------------|-------------|---------|-----|--------|
| C1 | 1006755-79 | CAPACITOR | 6.8UF | 10% | 35V |
| C2 | 1006755-14 | | 100UF | | 10V |
| C3 | 1006755-57 | | 0.00UF | | 35V |
| C4 | 1006755-79 | | 6.8UF | | 35V |
| C5 | 1006777-31 | | 0.01UF | | 100V |
| C6 | 1006777-28 | | 0.047UF | 10% | 100V |
| C7 | 1006793-30 | | 10066UF | 2% | 800V |
| C8 | 1006755-134 | | 22UF | 10% | 50V |
| C9 | -134 | | | | |
| C10 | -134 | | | | |
| C11 | -134 | | | | |
| C12 | -134 | | 22UF | | 50V |
| C13 | -69 | | 47UF | | 35V |
| C14 | -69 | | | | |
| C15 | -69 | | | | |
| C16 | -69 | | | | |
| C17 | -69 | | | | |
| C18 | -69 | | 47UF | | 35V |
| C19 | -134 | | 22UF | | 50V |
| C20 | -134 | | 22UF | | 50V |
| C21 | -134 | | 22UF | | 50V |
| C22 | -134 | | 22UF | | 50V |
| C23 | -134 | | 47UF | | 50V |
| C24 | 1006755-79 | CAPACITOR | 6.8UF | 10% | 35V |
| SELECTION LIST | | | | | |
| Q1 | 1010376-3 | TRANSISTOR | | | |
| Q2 | 2004184-002 | | | | |
| Q3 | 2004184-002 | | | | |
| Q4 | 2004184-002 | | | | |
| Q5 | 2004184-002 | | | | |
| Q6 | 2004184-002 | | | | |
| Q7 | 2004184-002 | | | | |
| Q8 | 2004184-002 | | | | |
| Q9 | | | | | |
| Q10 | 2004184-001 | TRANSISTOR | | | |
| Q11 | 1006317-002 | TRANSISTOR | | | |
| Q12 | 2004184-001 | | | | |
| Q13 | 1006363-001 | | | | |
| Q14 | 2004184-001 | | | | |
| Q15 | 2004184-001 | | | | |
| Q16 | 2004184-001 | TRANSISTOR | | | |
| SELECTION LIST | | | | | |
| K1 | 1006104-002 | RELAY | | | |
| L1 | 1006328 | INDUCTOR | 80UH | | |
| L2 | 1006327 | INDUCTOR | 25UH | | |
| L3 | 1006327 | INDUCTOR | 25UH | | |
| L4 | 1006327 | INDUCTOR | 25UH | | |
| SELECTION LIST | | | | | |
| CR1 | 2004112-002 | DIODE | | | |
| CR2 | 2004183-001 | | | | |
| CR3 | 2004183-001 | | | | |
| CR4 | 2004183-001 | | | | |
| CR5 | 2004183-001 | | | | |
| CR6 | 1006329 | | | | |
| CR7 | 2004112-001 | | | | |
| CR8 | 2004183-001 | | | | |
| CR9 | 2004183-001 | | | | |
| CR10 | 1006322 | DIODE | | | |
| SELECTION LIST | | | | | |
| CR14 | 2004183-001 | DIODE | | | |

| | | | |
|------------------------------------------|-------------------------|-----------------------------|-------------|
| REV | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIG NO. |
| 1 | | | |
| LIST OF MATERIALS | | | |
| MILITARY INSTRUMENTATION - AIRCRAFT TEAM | | | |
| SCHEMATIC AGC POWER SUPPLY A30-31 | | | |
| APPROVED | DATE | DESIGN NO. | DRAWING NO. |
| W. J. SULLIVAN | 7/1/68 | 80230 | 2005936 |
| APPROVED | DATE | REV | REV |
| | | | |

| | |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL | NEXT ASSY USED ON APPLICATION |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|

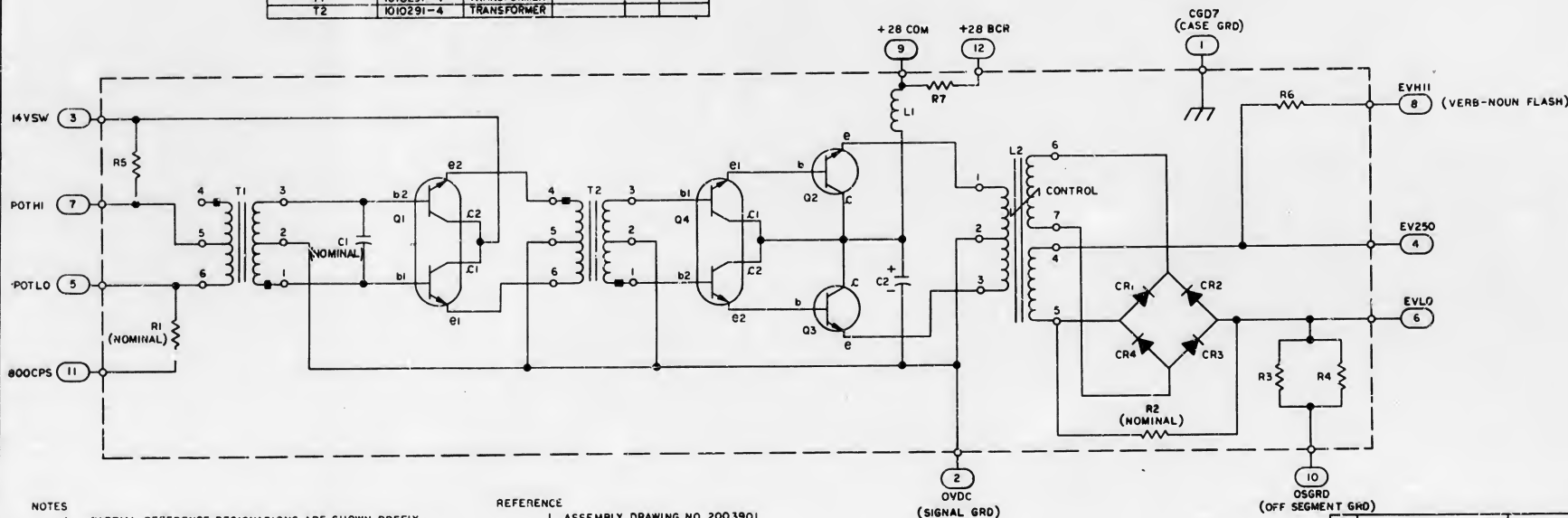
2005936

| RI | | |
|------------|------|-------|
| PART NO. | | VALUE |
| 1006750-41 | | 2400 |
| | -42 | 2700 |
| | -43 | 3000 |
| | -44 | 3300 |
| | -45 | 3600 |
| | -46 | 3900 |
| | -47 | 4300 |
| | -48 | 4700 |
| | -126 | 2850 |
| | -127 | 3150 |
| | -128 | 3450 |
| | -129 | 3750 |
| | -130 | 4100 |
| | -131 | 4500 |
| | -38 | 1800 |
| | -122 | 1900 |
| | -39 | 2000 |
| | -123 | 2100 |
| | -40 | 2200 |
| | -124 | 2300 |
| 1006750 | -125 | 2500 |

| R2 | |
|------------|-------|
| PART NO. | VALUE |
| 1006750-19 | 300 |
| -22 | 390 |
| -25 | 510 |
| -27 | 620 |
| -28 | 680 |
| -29 | 750 |
| -30 | 820 |
| -31 | 910 |
| -32 | 1000 |
| -34 | 1200 |
| 1006750-36 | 1500 |

| CI | |
|------------|-------|
| PART NO. | VALUE |
| 1006793-18 | 3000 |
| -19 | 3300 |
| -20 | 3600 |
| -21 | 3900 |
| -22 | 4300 |
| -23 | 4700 |
| 1006793-24 | 5100 |

| REVISIONS | | | |
|-----------|---------------------------|----------|----------|
| SYM | DESCRIPTION | DATE | APPROVAL |
| A | INITIAL RELEASE TPA 32573 | 6 JAN 67 | Set YU |



- NOTES
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN, PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
 2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 3. Q2 AND Q3 IS A MATCHED PAIR
 4. RESISTORS ARE IN OHMS UNLESS OTHERWISE SPECIFIED
 5. CAPACITORS ARE IN UF UNLESS OTHERWISE SPECIFIED

REFERENCE
I. ASSEMBLY DRAWING NO. 200390

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT NEXT ABBY USED ON APPLICATION FINAL P25H | M T Y INSTRUMENTATION LAB CHAMBERLAIN BLVD DOWNS DR ORDERED 2/27/77 DATE 2/24/77 C. D. DIXON 2/28/76 APPROVAL C. D. DIXON 2/28/76 NASA APPROVAL [Signature] 2/28/77 C. D. DIXON 2/28/77 | MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC POWER SUPPLY MODULE 07 NASA DRAWING NO. 2005937 |
| | 802306 SCALE NONE WT | SHEET 1 OF 1 |

R29,R50,R51

| PART NO. | VALUE |
|-------------|-------|
| 1006758-215 | 5.62 |
| -219 | 5.89 |
| -220 | 5.76 |
| -221 | 5.33 |
| -222 | 5.90 |
| -223 | 5.97 |
| -224 | 6.04 |
| -225 | 6.12 |
| -226 | 6.19 |
| -227 | 6.26 |
| -228 | 6.34 |
| -229 | 6.42 |
| -230 | 6.49 |
| -231 | 6.57 |
| -232 | 6.65 |
| -233 | 6.73 |
| -234 | 6.81 |
| -235 | 6.90 |
| -236 | 6.98 |
| -237 | 7.06 |
| -238 | 7.15 |
| -239 | 7.23 |
| -240 | 7.32 |
| -241 | 7.41 |
| -242 | 7.50 |
| -243 | 4.81 |
| -244 | 4.87 |
| -245 | 4.93 |
| -246 | 4.99 |
| -247 | 5.05 |
| -248 | 5.11 |
| -249 | 5.17 |
| -250 | 5.23 |
| -251 | 5.30 |
| -252 | 5.36 |
| -253 | 5.42 |
| -254 | 5.49 |
| -255 | 5.56 |

R36,R37

| PART NO. | VALUE |
|-------------|-------|
| 1006758-255 | 8.76 |
| -256 | 8.87 |
| -257 | 8.96 |
| -258 | 9.09 |
| -259 | 9.20 |
| -260 | 9.31 |
| -261 | 9.42 |
| -262 | 9.53 |
| -263 | 9.64 |
| -264 | 9.76 |
| -265 | 9.88 |
| -266 | 10.0 |
| -267 | 10.1 |
| -268 | 10.2 |
| -269 | 10.4 |
| -270 | 10.5 |
| -271 | 10.6 |
| -272 | 10.7 |
| -273 | 10.9 |
| -274 | 11.0 |
| -275 | 11.1 |
| -276 | 11.3 |
| -277 | 11.4 |
| -278 | 11.5 |
| -279 | 11.7 |

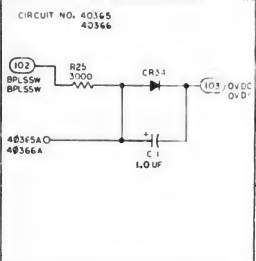
L2,L3

| PART NO. | VALUE |
|-----------|-------|
| 100406-11 | 3.3UH |
| 100406-22 | 2.7UH |
| 100406-21 | 3.3UH |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING | CIRCUIT NO. USED ON | MODULE NO. | MODULE NO. |
|---------|------------|-------------|-------|-------|--------|---------------------|------------|------------|
| R1 | 1006750-36 | RESISTOR | 1500 | ±2% | 1/4W | | | |
| R2 | -35 | | 1300 | | | | | |
| R3 | -24 | | 470 | | | | | |
| R4 | -23 | | 750 | | | | | |
| R5 | -35 | | 1300 | | | | | |
| R6 | -15 | | 200 | | | | | |
| R7 | -15 | | 200 | | | | | |
| R8 | -15 | | 200 | | | | | |
| R9 | -35 | | 1500 | | | | | |
| R10 | -35 | | 1500 | | | | | |
| R11 | -24 | | 470 | | | | | |
| R12 | -24 | | 750 | | | | | |
| R13 | -35 | | 1300 | | | | | |
| R14 | -15 | | 200 | | | | | |
| R15 | -15 | | 200 | | | | | |
| R16 | -15 | | 200 | | | | | |
| R17 | -35 | | 1500 | | | | | |
| R18 | -35 | | 1500 | | | | | |
| R19 | -24 | | 470 | | | | | |
| R20 | -23 | | 750 | | | | | |
| R21 | -35 | | 1300 | | | | | |
| R22 | -15 | | 200 | | | | | |
| R23 | -15 | | 200 | | | | | |
| R24 | -15 | | 200 | | | | | |
| R25 | -45 | | 3000 | | | | | |
| R26 | -35 | | 1000 | | | | | |
| R27 | -15 | | 200 | | | | | |
| R28 | 1006750-22 | SEE NOTE 3 | 390 | ±2% | | | | |
| R29 | SEE NOTE 3 | NOM | ±0.5% | | | | | |
| R30 | 1006750-49 | | 5100 | ±2% | | | | |
| R31 | -45 | | 200 | | | | | |
| R32 | -35 | | 1000 | | | | | |
| R33 | -49 | | 5100 | | | | | |
| R34 | 1006750-49 | | 5100 | ±2% | | | | |
| R35 | 1006750-27 | | 27 | ±1% | | | | |
| R36 | SEE NOTE 3 | NOM | ±0.5% | | | | | |
| R37 | SEE NOTE 3 | NOM | ±0.5% | | | | | |
| R38 | 1006750-49 | | 5100 | ±2% | | | | |
| R39 | -15 | | 200 | | | | | |
| R40 | -24 | | 470 | | | | | |
| R41 | -35 | | 2000 | | | | | |
| R42 | -23 | | 750 | | | | | |
| R43 | -35 | | 2000 | | | | | |
| R44 | -49 | | 5100 | | | | | |
| R45 | -15 | | 200 | | | | | |
| R46 | -35 | | 1000 | | | | | |
| R47 | -15 | | 200 | | | | | |
| R48 | 1006750-49 | | 5100 | ±2% | | | | |
| R50 | SEE NOTE 3 | NOM | ±0.5% | | | | | |
| R51 | SEE NOTE 3 | NOM | ±0.5% | | | | | |
| R52 | 1006750-16 | RESISTOR | 220 | ±2% | 1/4W | | | |
| R53 | 1006750-16 | RESISTOR | 220 | ±2% | 1/4W | | | |
| C1 | 1006755-49 | CAPACITOR | 10UF | 35VDC | | | | |
| C2 | -79 | | 6.8UF | | | | | |
| C3 | -79 | | | | | | | |
| C4 | -79 | | | | | | | |
| C5 | -79 | | | | | | | |
| C6 | -79 | | | | | | | |
| C7 | -79 | | | | | | | |
| C8 | 1006755-79 | CAPACITOR | 6.8UF | 35VDC | | | | |
| L1 | 100406-10 | INDUCTOR | 2.2UH | | | | | |
| L2 | SEE NOTE 3 | N/M | | | | | | |
| L3 | SEE NOTE 3 | N/M | | | | | | |
| L4 | 100406-7 | | 8.2UH | | | | | |
| L5 | -7 | | | | | | | |
| L6 | -7 | | | | | | | |
| L7 | -7 | | | | | | | |
| L8 | -7 | | | | | | | |
| L9 | -7 | | | | | | | |
| L10 | -7 | | | | | | | |
| L11 | -7 | | | | | | | |
| L12 | 100406-11 | INDUCTOR | 3.3UH | | | | | |
| R54 | 1006750-16 | RESISTOR | 220 | ±2% | 1/4W | | | |
| R55 | 1006750-16 | RESISTOR | 220 | ±2% | 1/4W | | | |

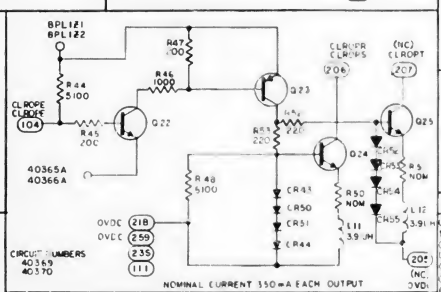
| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING | CIRCUIT NO. USED ON | MODULE NO. | MODULE NO. |
|---------|-------------|-------------|-------|-----|--------|---------------------|------------|------------|
| CR1 | 2004183-001 | DIODE | | | | | | |
| CR2 | | | | | | | | |
| CR3 | | | | | | | | |
| CR4 | | | | | | | | |
| CR5 | | | | | | | | |
| CR6 | | | | | | | | |
| CR7 | | | | | | | | |
| CR8 | | | | | | | | |
| CR9 | | | | | | | | |
| CR10 | | | | | | | | |
| CR11 | | | | | | | | |
| CR12 | | | | | | | | |
| CR13 | | | | | | | | |
| CR14 | | | | | | | | |
| CR15 | | | | | | | | |
| CR16 | | | | | | | | |
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| CR18 | | | | | | | | |
| CR19 | | | | | | | | |
| CR20 | | | | | | | | |
| CR21 | | | | | | | | |
| CR22 | | | | | | | | |
| CR23 | | | | | | | | |
| CR24 | | | | | | | | |
| CR25 | | | | | | | | |
| CR26 | | | | | | | | |
| CR27 | | | | | | | | |
| CR28 | | | | | | | | |
| CR29 | | | | | | | | |
| CR30 | | | | | | | | |
| CR31 | | | | | | | | |
| CR32 | | | | | | | | |
| CR33 | | | | | | | | |
| CR34 | | | | | | | | |
| CR35 | | | | | | | | |
| CR36 | | | | | | | | |
| CR37 | | | | | | | | |
| CR38 | | | | | | | | |
| CR39 | | | | | | | | |
| CR40 | | | | | | | | |
| CR41 | | | | | | | | |
| CR42 | | | | | | | | |
| CR43 | | | | | | | | |
| CR44 | 2004183-001 | DIODE | | | | | | |
| Q1 | 2004004-002 | TRANSISTOR | | | | | | |
| Q2 | 2004184-001 | | | | | | | |
| Q3 | 2004184-001 | | | | | | | |
| Q4 | 2004184-001 | | | | | | | |
| Q5 | 2004004-002 | | | | | | | |
| Q6 | 2004184-001 | | | | | | | |
| Q7 | 2004184-001 | | | | | | | |
| Q8 | 2004184-001 | | | | | | | |
| Q9 | 2004004-002 | | | | | | | |
| Q10 | 2004184-001 | | | | | | | |
| Q11 | -001 | | | | | | | |
| Q12 | -001 | | | | | | | |
| Q13 | -001 | | | | | | | |
| Q14 | -001 | | | | | | | |
| Q15 | 2004184-001 | | | | | | | |
| Q16 | 2004004-002 | | | | | | | |
| Q17 | 2004184-001 | | | | | | | |
| Q18 | 2004184-001 | | | | | | | |
| Q19 | 2004184-001 | | | | | | | |
| Q20 | 2004004-002 | | | | | | | |
| Q21 | 2004184-001 | | | | | | | |
| Q22 | 2004184-001 | | | | | | | |
| Q23 | 2004004-002 | | | | | | | |
| Q24 | 2004184-001 | | | | | | | |
| Q25 | 2004184-001 | TRANSISTOR | | | | | | |
| CR45 | 2004183-001 | DIODE | | | | | | |
| CR46 | | | | | | | | |
| CR47 | | | | | | | | |
| CR48 | | | | | | | | |
| CR49 | | | | | | | | |
| CR50 | | | | | | | | |
| CR51 | | | | | | | | |
| CR52 | | | | | | | | |
| CR53 | | | | | | | | |
| CR54 | | | | | | | | |
| CR55 | | | | | | | | |
| CR56 | | | | | | | | |
| CR57 | 2004183-001 | DIODE | | | | | | |

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------|---------|
| QTY | PART OR IDENTIFYING NO | NON-IDENTIFYING OR DESCRIPTION | FIND NO |
| LIST OF MATERIALS | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES 1 1/2 3/4 1/2 1/4 1/8 1/16 1/32 1/64 1/128 1/256 1/512 1/1024 1/2048 1/4096 1/8192 1/16384 1/32768 1/65536 1/131072 1/262144 1/524288 1/1048576 1/2097152 1/4194304 1/8388608 1/16777216 1/33554432 1/67108864 1/134217728 1/268435456 1/536870912 1/1073741824 1/2147483648 1/4294967296 1/8589934592 1/17179869184 1/34359738368 1/68719476736 1/137438953472 1/274877906944 1/549755813888 1/1099511627776 1/2199023255552 1/4398046511104 1/8796093022208 1/17592186044416 1/35184372088832 1/70368744177664 1/140737488355328 1/281474976710656 1/562949953421312 1/1125899906842624 1/2251799813685248 1/4503599627370496 1/9007199254740992 1/18014398509481984 1/36028797018963968 1/72057594037927936 1/144115188075855872 1/288230376151711744 1/576460752303423488 1/1152921504606846976 1/2305843009213693952 1/4611686018427387904 1/9223372036854775808 1/18446744073709551616 1/36893488147419103232 1/73786976294838206464 1/147573952589676412928 1/295147905179352825856 1/590295810358705651712 1/1180591620717411303424 1/2361183241434822606848 1/4722366482869645213696 1/9444732965739290427392 1/18889465931478580854784 1/37778931862957161709568 1/75557863725914323419136 1/151115727451828646838272 1/302231454903657293676544 1/604462909807314587353088 1/1208925819614629174706176 1/2417851639229258349412352 1/4835703278458516698824704 1/9671406556917033397649408 1/19342813113834066795298816 1/38685626227668133590597632 1/77371252455336267181195264 1/154742504910672534362390528 1/309485009821345068724781056 1/618970019642690137449562112 1/1237940039285380274899244224 1/2475880078570760549798488448 1/4951760157141521099596976896 1/9903520314283042199193953792 1/19807040628566084398387907584 1/39614081257132168796775815168 1/79228162514264337593551630336 1/158456325028528675187103260672 1/316912650057057350374206521344 1/633825300114114700748413042688 1/1267650600228229401496826085376 1/2535301200456458802993652170752 1/5070602400912917605987304341504 1/10141204801825835211974608683008 1/20282409603651670423949217366016 1/40564819207303340847898434732032 1/811296384146 | | | |



| F | | G | | H | |
|--------|---------|--------|---------|--------|---------|
| SIGNAL | PIN NO. | SIGNAL | PIN NO. | SIGNAL | PIN NO. |
| BPL5SW | 102 | OVDC | 101 | BPL5WX | 202 |
| | | | | BPL5WY | 203 |
| | | | | BPL5WZ | 204 |
| | | | | BPL5WF | 202 |
| | | | | BPL5WG | 203 |
| BPL5SW | 102 | OVDC | 101 | BPL5WH | 204 |

CIRCUIT NUMBERS
40524
40525



| | | | | | | | |
|-----|--|-------------------------------------|--|-----------------------------|--|-----------------|--|
| QTY | | PART OR IDENTIFYING NO | | NOMENCLATURE OR DESCRIPTION | | FIN NO | |
| REQ | | | | LIST OF MATERIAL | | | |
| | | M.T.S. | | MANNED SPACECRAFT CENTER | | | |
| | | INSTRUMENTATION LAB | | HOUSTON, TEXAS | | | |
| | | DRAWN BY: <u>W. B. BENTLEY</u> | | | | | |
| | | CHECKED BY: <u>W. B. BENTLEY</u> | | | | | |
| | | APPROVAL: <u>W. B. BENTLEY</u> | | | | | |
| | | DATE: <u>10/1/64</u> | | | | | |
| | | DO NOT SCALE THIS DRAWING | | | | | |
| | | DETAIL | | | | | |
| | | MATERIAL TREATMENT | | | | | |
| | | NASA APPROVAL: <u>W. B. BENTLEY</u> | | | | | |
| | | CODE IDENT NO | | SIZE | | NASA DRAWING NO | |
| | | 80230 | | E | | 2005938 | |
| | | C.B. APPROVAL: <u>W. B. BENTLEY</u> | | BY | | SHEET 3 OF 2 | |
| | | APPLICATION | | | | | |
| | | NEXT ASY | | USED ON | | | |
| | | FINAL TRAIL | | | | | |

R29,R50,R51

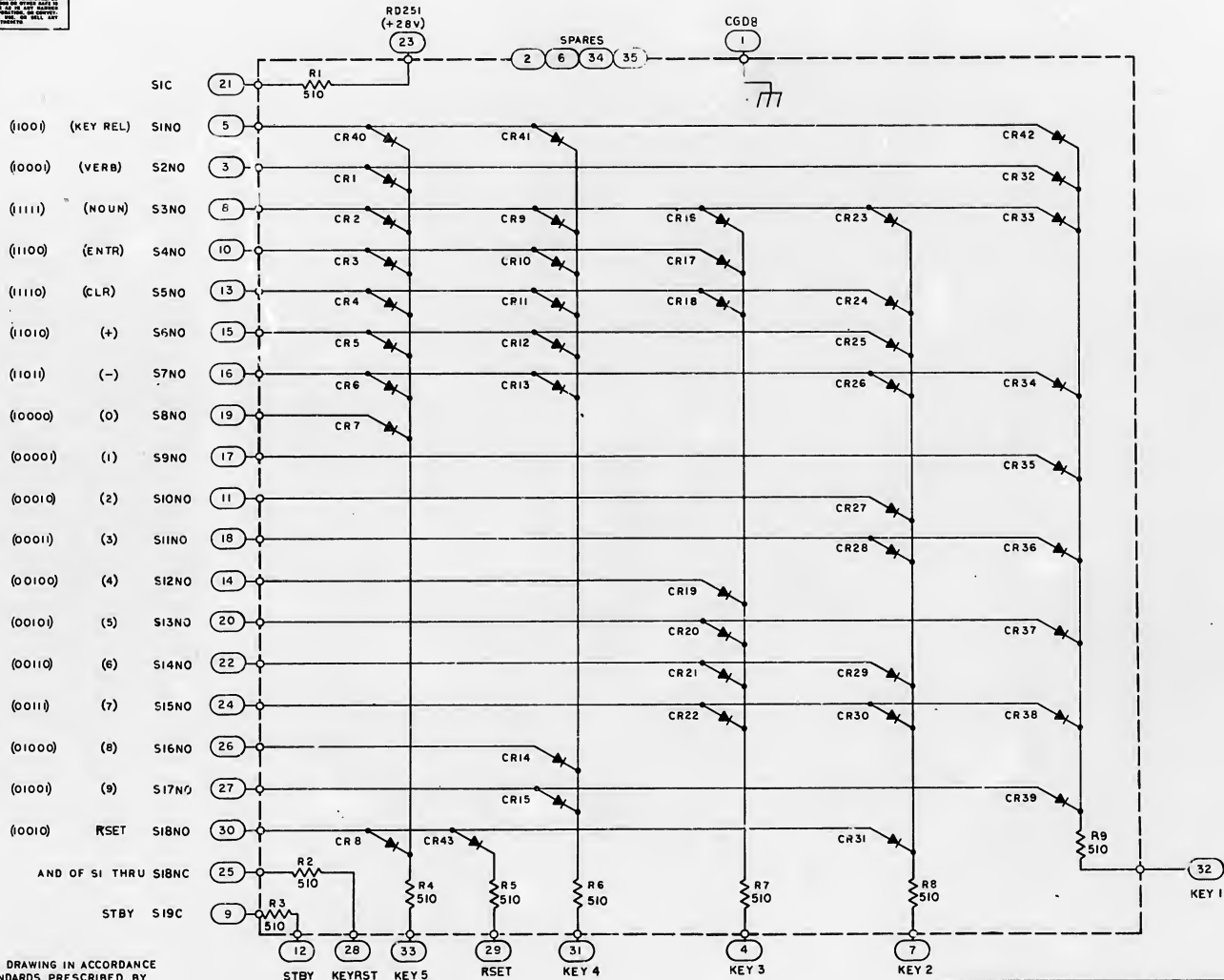
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| 220 | 5.76 |
| 221 | 5.83 |
| 222 | 5.90 |
| 223 | 5.97 |
| 224 | 6.04 |
| 225 | 6.12 |
| 226 | 6.19 |
| 227 | 6.26 |
| 228 | 6.34 |
| 229 | 6.42 |
| 230 | 6.49 |
| 231 | 6.57 |
| 232 | 6.65 |
| 233 | 6.73 |
| 234 | 6.81 |
| 235 | 6.90 |
| 236 | 6.99 |
| 237 | 7.07 |
| 238 | 7.15 |
| 239 | 7.23 |
| 240 | 7.32 |
| 241 | 7.41 |
| 242 | 7.50 |
| 243 | 7.59 |
| 244 | 7.68 |
| 245 | 7.77 |
| 246 | 7.86 |
| 247 | 7.95 |
| 248 | 8.04 |
| 249 | 8.13 |
| 250 | 8.22 |
| 251 | 8.31 |
| 252 | 8.40 |
| 253 | 8.49 |
| 254 | 8.58 |
| 255 | 8.67 |
| 256 | 8.76 |
| 257 | 8.85 |
| 258 | 8.94 |
| 259 | 9.03 |
| 260 | 9.12 |
| 261 | 9.21 |
| 262 | 9.30 |
| 263 | 9.39 |
| 264 | 9.48 |
| 265 | 9.57 |
| 266 | 9.66 |
| 267 | 9.75 |
| 268 | 9.84 |
| 269 | 9.93 |
| 270 | 10.02 |
| 271 | 10.11 |
| 272 | 10.20 |
| 273 | 10.29 |
| 274 | 10.38 |
| 275 | 10.47 |
| 276 | 10.56 |
| 277 | 10.65 |
| 278 | 10.74 |
| 279 | 10.83 |
| 280 | 10.92 |
| 281 | 11.01 |
| 282 | 11.10 |
| 283 | 11.19 |
| 284 | 11.28 |
| 285 | 11.37 |
| 286 | 11.46 |
| 287 | 11.55 |
| 288 | 11.64 |
| 289 | 11.73 |
| 290 | 11.82 |
| 291 | 11.91 |
| 292 | 12.00 |
| 293 | 12.09 |
| 294 | 12.18 |
| 295 | 12.27 |
| 296 | 12.36 |
| 297 | 12.45 |
| 298 | 12.54 |
| 299 | 12.63 |
| 300 | 12.72 |
| 301 | 12.81 |
| 302 | 12.90 |
| 303 | 12.99 |
| 304 | 13.08 |
| 305 | 13.17 |
| 306 | 13.26 |
| 307 | 13.35 |
| 308 | 13.44 |
| 309 | 13.53 |
| 310 | 13.62 |
| 311 | 13.71 |
| 312 | 13.80 |
| 313 | 13.89 |
| 314 | 13.98 |
| 315 | 14.07 |
| 316 | 14.16 |
| 317 | 14.25 |
| 318 | 14.34 |
| 319 | 14.43 |
| 320 | 14.52 |
| 321 | 14.61 |
| 322 | 14.70 |
| 323 | 14.79 |
| 324 | 14.88 |
| 325 | 14.97 |
| 326 | 15.06 |
| 327 | 15.15 |
| 328 | 15.24 |
| 329 | 15.33 |
| 330 | 15.42 |
| 331 | 15.51 |
| 332 | 15.60 |
| 333 | 15.69 |
| 334 | 15.78 |
| 335 | 15.87 |
| 336 | 15.96 |
| 337 | 16.05 |
| 338 | 16.14 |
| 339 | 16.23 |
| 340 | 16.32 |
| 341 | 16.41 |
| 342 | 16.50 |
| 343 | 16.59 |
| 344 | 16.68 |
| 345 | 16.77 |
| 346 | 16.86 |
| 347 | 16.95 |
| 348 | 17.04 |
| 349 | 17.13 |
| 350 | 17.22 |
| 351 | 17.31 |
| 352 | 17.40 |
| 353 | 17.49 |
| 354 | 17.58 |
| 355 | 17.67 |
| 356 | 17.76 |
| 357 | 17.85 |
| 358 | 17.94 |
| 359 | 18.03 |
| 360 | 18.12 |
| 361 | 18.21 |
| 362 | 18.30 |
| 363 | 18.39 |
| 364 | 18.48 |
| 365 | 18.57 |
| 366 | 18.66 |
| 367 | 18.75 |
| 368 | 18.84 |
| 369 | 18.93 |
| 370 | 19.02 |
| 371 | 19.11 |
| 372 | 19.20 |
| 373 | 19.29 |
| 374 | 19.38 |
| 375 | 19.47 |
| 376 | 19.56 |
| 377 | 19.65 |
| 378 | 19.74 |
| 379 | 19.83 |
| 380 | 19.92 |
| 381 | 20.01 |
| 382 | 20.10 |
| 383 | 20.19 |
| 384 | 20.28 |
| 385 | 20.37 |
| 386 | 20.46 |
| 387 | 20.55 |
| 388 | 20.64 |
| 389 | 20.73 |
| 390 | 20.82 |
| 391 | 20.91 |
| 392 | 21.00 |
| 393 | 21.09 |
| 394 | 21.18 |
| 395 | 21.27 |
| 396 | 21.36 |
| 397 | 21.45 |
| 398 | 21.54 |
| 399 | 21.63 |
| 400 | 21.72 |
| 401 | 21.81 |
| 402 | 21.90 |
| 403 | 22.00 |
| 404 | 22.09 |
| 405 | 22.18 |
| 406 | 22.27 |
| 407 | 22.36 |
| 408 | 22.45 |
| 409 | 22.54 |
| 410 | 22.63 |
| 411 | 22.72 |
| 412 | 22.81 |
| 413 | 22.90 |
| 414 | 23.00 |
| 415 | 23.09 |
| 416 | 23.18 |
| 417 | 23.27 |
| 418 | 23.36 |
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| 420 | 23.54 |
| 421 | 23.63 |
| 422 | 23.72 |
| 423 | 23.81 |
| 424 | 23.90 |
| 425 | 24.00 |
| 426 | 24.09 |
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| 430 | 24.45 |
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| 435 | 24.90 |
| 436 | 25.00 |
| 437 | 25.09 |
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| 443 | 25.63 |
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| 447 | 26.00 |
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| 458 | 27.00 |
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| 465 | 27.63 |
| 466 | 27.72 |
| 467 | 27.81 |
| 468 | 27.90 |
| 469 | 28.00 |
| 470 | 28.09 |
| 471 | 28.18 |
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| 473 | 28.36 |
| 474 | 28.45 |
| 475 | 28.54 |
| 476 | 28.63 |
| 477 | 28.72 |
| 478 | 28.81 |
| 479 | 28.90 |
| 480 | 29.00 |
| 481 | 29.09 |
| 482 | 29.18 |
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| 488 | 29.72 |
| 489 | 29.81 |
| 490 | 29.90 |
| 491 | 30.00 |
| 492 | 30.09 |
| 493 | 30.18 |
| 494 | 30.27 |
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| 496 | 30.45 |
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| 498 | 30.63 |
| 499 | 30.72 |
| 500 | 30.81 |
| 501 | 30.90 |
| 502 | 31.00 |
| 503 | 31.09 |
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| 506 | 31.36 |
| 507 | 31.45 |
| 508 | 31.54 |
| 509 | 31.63 |
| 510 | 31.72 |
| 511 | 31.81 |
| 512 | 31.90 |
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| 514 | 32.09 |
| 515 | 32.18 |
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| 517 | 32.36 |
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| 521 | 32.72 |
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| 523 | 32.90 |
| 524 | 33.00 |
| 525 | 33.09 |
| 526 | 33.18 |
| 527 | 33.27 |
| 528 | 33.36 |
| 529 | 33.45 |
| 530 | 33.54 |
| 531 | 33.63 |
| 532 | 33.72 |
| 533 | 33.81 |
| 534 | 33.90 |
| 535 | 34.00 |
| 536 | 34.09 |
| 537 | 34.18 |
| 538 | 34.27 |
| 539 | 34.36 |
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| 541 | 34.54 |
| 542 | 34.63 |
| 543 | 34.72 |
| 544 | 34.81 |
| 545 | 34.90 |
| 546 | 35.00 |
| 547 | 35.09 |
| 548 | 35.18 |
| 549 | 35.27 |
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| 551 | 35.45 |
| 552 | 35.54 |
| 553 | 35.63 |
| 554 | 35.72 |
| 555 | 35.81 |
| 556 | 35.90 |
| 557 | 36.00 |
| 558 | 36.09 |
| 559 | 36.18 |
| 560 | 36.27 |
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| 562 | 36.45 |
| 563 | 36.54 |
| 564 | 36.63 |
| 565 | 36.72 |
| 566 | 36.81 |
| 567 | 36.90 |
| 568 | 37.00 |
| 569 | 37.09 |
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| 571 | 37.27 |
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| 575 | 37.63 |
| 576 | 37.72 |
| 577 | 37.81 |
| 578 | 37.90 |
| 579 | 38.00 |
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| 581 | 38.18 |
| 582 | 38.27 |
| 583 | 38.36 |
| 584 | 38.45 |
| 585 | 38.54 |
| 586 | 38.63 |
| 587 | 38.72 |
| 588 | 38.81 |
| 589 | 38.90 |
| 590 | 39.00 |
| 591 | 39.09 |
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| 593 | 39.27 |
| 594 | 39.36 |
| 595 | 39.45 |
| 596 | 39.54 |
| 597 | 39.63 |
| 598 | 39.72 |
| 599 | 39.81 |
| 600 | 39.90 |
| 601 | 40.00 |
| 602 | 40.09 |
| 603 | 40.18 |
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| 609 | 40.72 |
| 610 | 40.81 |
| 611 | 40.90 |
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| 614 | 41.18 |
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| 618 | 41.54 |
| 619 | 41.63 |
| 620 | 41.72 |
| 621 | 41.81 |
| 622 | 41.90 |
| 623 | 42.00 |
| 624 | 42.09 |
| 625 | 42.18 |
| 626 | 42.27 |
| 627 | 42.36 |
| 628 | 42.45 |
| 629 | 42.54 |
| 630 | 42.63 |
| 631 | 42.72 |
| 632 | 42.81 |
| 633 | 42.90 |
| 634 | 43.00 |
| 635 | 43.09 |
| 636 | 43.18 |
| 637 | 43.27 |
| 638 | 43.36 |
| 639 | 43.45 |
| 640 | 43.54 |
| 641 | 43.63 |
| 642 | 43.72 |
| 643 | 43.81 |
| 644 | 43.90 |
| 645 | 44.00 |
| 646 | 44.09 |
| 647 | 44.18 |
| 648 | 44.27 |
| 649 | 44.36 |
| 650 | 44.45 |
| 651 | 44.54 |
| 652 | 44.63 |
| 653 | 44.72 |
| 654 | 44.81 |
| 655 | 44.90 |
| 656 | 45.00 |
| 657 | 45.09 |
| 658 | 45.18 |
| 659 | 45.27 |
| 660 | 45.36 |
| 661 | 45.45 |
| 662 | 45.54 |
| 663 | 45.63 |
| 664 | 45.72 |
| 665 | 45.81 |
| 666 | 45.90 |
| 667 | 46.00 |
| 668 | 46.09 |
| 669 | 46.18 |
| 670 | 46.27 |
| 671 | 46.36 |
| 672 | 46.45 |
| 673 | 46.54 |
| 674 | 46.63 |
| 675 | 46.72 |
| 676 | 46.81 |
| 677 | 46.90 |
| 678 | 47.00 |
| 679 | 47.09 |
| 680 | 47.18 |
| 681 | 47.27 |
| 682 | 47.36 |
| 683 | 47.45 |
| 684 | 47.54 |
| 685 | 47.63 |
| 686 | 47.72 |
| 687 | 47.81 |
| 688 | 47.90 |
| 689 | 48.00 |
| 690 | 48.09 |
| 691 | 48.18 |
| 692 | 48.27 |
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| 694 | 48.45 |
| 695 | 48.54 |
| 696 | 48.63 |
| 697 | 48.72 |
| 698 | 48.81 |
| 699 | 48.90 |
| 700 | 49.00 |
| 701 | 49.09 |
| 702 | 49.18 |
| 703 | 49.27 |
| 704 | 49.36 |
| 705 | 49.45 |
| 706 | 49.54 |
| 707 | 49.63 |
| 708 | 49.72 |
| 709 | 49.81 |
| 710 | 49.90 |
| 711 | 50.00 |
| 712 | 50.09 |
| 713 | 50.18 |
| 714 | 50.27 |
| 715 | 50.36 |
| 716 | 50.45 |
| 717 | 50.54 |
| 718 | 50.63 |
| 719 | 50.72 |
| 720 | 50.81 |
| 721 | 50.90 |
| 722 | 51.00 |
| 723 | 51.09 |
| 724 | 51.18 |
| 725 | 51.27 |
| 726 | 51.36 |
| 727 | 51.45 |
| 728 | 51.54 |
| 729 | 51.63 |
| 730 | 51.72 |
| 731 | 51.81 |
| 73 | |

R29,R50,R51

| PART NO. | VALUE |
|---------------|-------|
| 1006789 - 210 | 5.6Z |
| -210 | 5.6Z |
| -220 | 5.76 |
| -221 | 5.23 |
| -222 | 5.90 |
| -223 | 5.97 |
| -224 | 6.04 |
| -225 | 6.12 |
| -226 | 6.16 |
| -227 | 6.26 |
| -228 | 6.34 |
| -229 | 6.42 |
| -230 | 6.49 |
| -231 | 6.57 |
| -232 | 6.65 |
| -233 | 6.73 |
| -234 | 6.81 |
| -235 | 6.90 |
| -236 | 6.98 |
| -237 | 7.06 |
| -238 | 7.15 |
| -239 | 7.23 |
| -240 | 7.32 |
| -241 | 7.41 |
| -242 | 7.50 |
| -243 | 7.59 |
| -244 | 7.68 |
| -245 | 7.77 |
| -246 | 7.86 |
| -247 | 7.95 |
| -248 | 8.04 |
| -249 | 8.13 |
| -250 | 8.22 |
| -251 | 8.31 |
| -252 | 8.40 |
| -253 | 8.49 |
| -254 | 8.58 |
| -255 | 8.67 |
| -256 | 8.76 |
| -257 | 8.85 |
| -258 | 8.94 |
| -259 | 9.03 |
| -260 | 9.12 |
| -261 | 9.21 |
| -262 | 9.30 |
| -263 | 9.39 |
| -264 | 9.48 |
| -265 | 9.57 |
| -266 | 9.66 |
| -267 | 9.75 |
| -268 | 9.84 |
| -269 | 9.93 |
| -270 | 10.02 |
| -271 | 10.11 |
| -272 | 10.20 |
| -273 | 10.29 |
| -274 | 10.38 |
| -275 | 10.47 |
| -276 | 10.56 |
| -277 | 10.65 |
| -278 | 10.74 |
| -279 | 10.83 |
| -280 | 10.92 |
| -281 | 11.01 |
| -282 | 11.10 |
| -283 | 11.19 |
| -284 | 11.28 |
| -285 | 11.37 |
| -286 | 11.46 |
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| -754 | 53 |

NOTES: - THIS DRAWING IS A SCHEMATIC OF THE SPACECRAFT AND IS NOT TO BE USED FOR CONSTRUCTION OF THE SPACECRAFT. IT IS THE RESPONSIBILITY OF THE USER TO OBTAIN THE NECESSARY INFORMATION TO CONSTRUCT THE SPACECRAFT. THE USER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION OBTAINED FROM THIS DRAWING. THE USER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION OBTAINED FROM THIS DRAWING. THE USER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION OBTAINED FROM THIS DRAWING.

| REVISIONS | | | |
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| SYM | DESCRIPTION | DATE | APPROVAL |
| A | INITIAL RELEASE | 10/11/73 | 6/28/73 |



| REF DESIGNATION | PART NO | DESCRIPTION | VALUE | TOL | RATING |
|-----------------|-------------|-------------|-------|-----|--------|
| CR1-CR43 | 2004183-001 | DIODE | | | |
| R1-R9 | 1006750-25 | RESISTOR | 510 | 2% | 1/4 W |

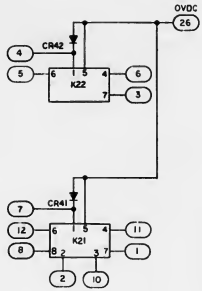
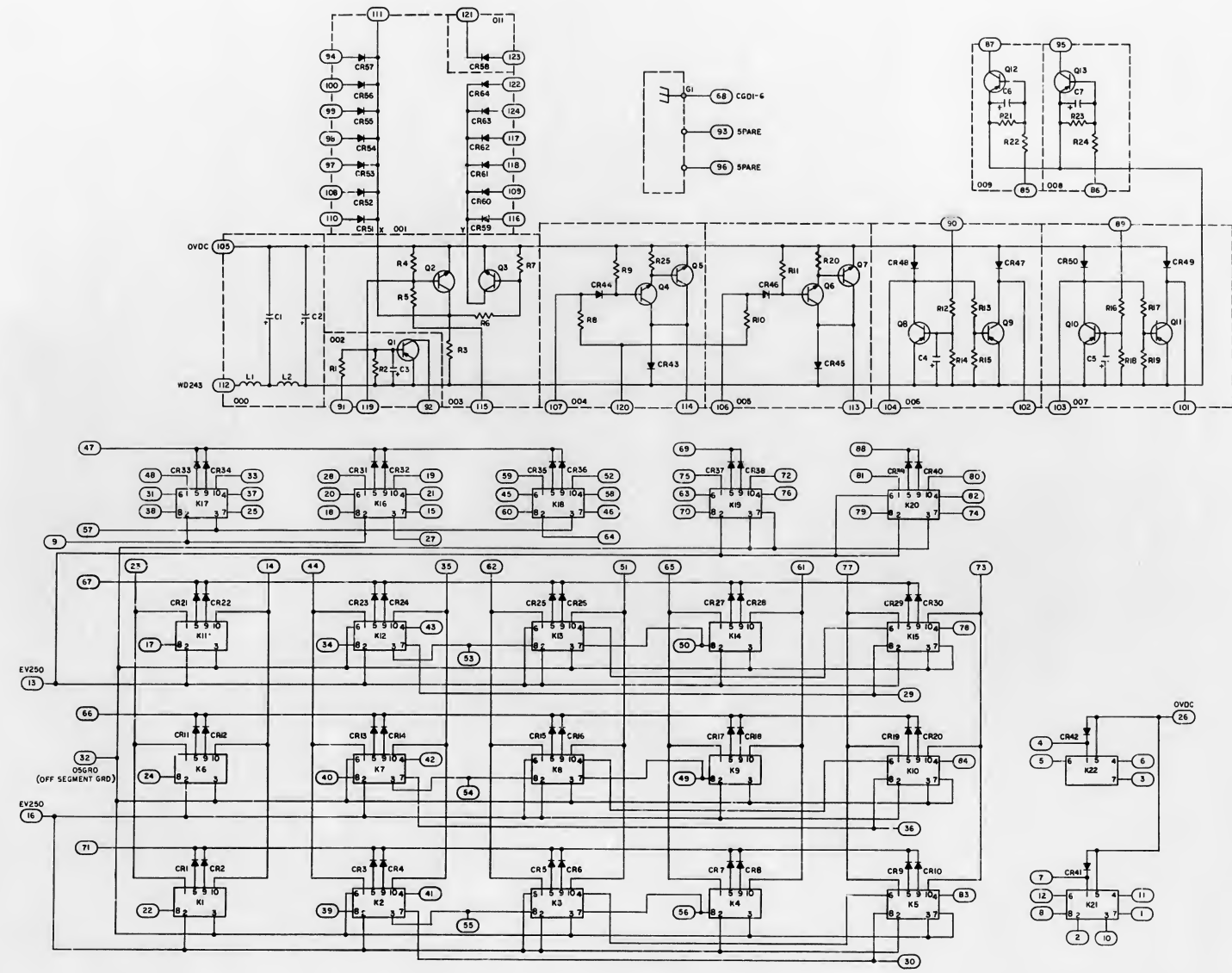
NOTE:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REFERENCE
1. ASSEMBLY DRAWING NO. 2003909

| | | | |
|----------------------------------------------------|-------------------------|--------------------------------------------|----------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FRID NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB COLUMBIA, MISSOURI | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN: <i>[Signature]</i> DATE: <i>9/25/66</i> | | SCHEMATIC KEYBOARD MODULE DB | |
| CHECKED: <i>[Signature]</i> DATE: <i>9/25/66</i> | | CODE IDENT NO. SIZE 80230 D | |
| APPROVAL: <i>[Signature]</i> DATE: <i>10/11/73</i> | | NASA DRAWING NO. 2005939 | |
| NASA APPROVAL: <i>[Signature]</i> | | SCALE NONE WT | |
| MIT APPROVAL: <i>[Signature]</i> | | SHEET 1 OF 1 | |
| GPO APPROVAL: <i>[Signature]</i> | | | |
| NEXT ASSY USED ON APPLICATION | | | |

2005939 A

| REF | PART NO | DESCRIPTION | VALUE | TOL | RATING |
|-----------|-------------|-------------|--------|------|--------|
| R1 | 100K750-56 | RESISTOR | 10K | 2% | 1/4W |
| R3 | 100K750-39 | | 2K | | |
| R5 | 100K750-56 | | 10K | | |
| R4 | 100K750-56 | | 10K | | |
| R6 | 100K750-62 | | 1.4K | | |
| R6 | 100K750-56 | | 10K | | |
| R7 | 100K750-56 | | 10K | | |
| R8 | 100K750-56 | | 10K | | |
| R9 | 100K750-56 | | 10K | | |
| R10 | 100K750-62 | | 18K | | |
| R11 | 100K750-56 | | 10K | | |
| R12 | 100K750-56 | | 10K | | |
| R13 | 100K750-63 | | 20M | | |
| R14 | 100K750-39 | | 2K | | |
| R15 | 100K750-56 | | 10K | | |
| R16 | 100K750-56 | | 10K | | |
| R17 | 100K750-63 | | 20K | | |
| R18 | 100K750-39 | | 2K | | |
| R19 | 100K750-56 | | 10K | | |
| R20 | 100K750-32 | | 1K | | |
| R21 | 100K750-39 | | 2K | | |
| R22 | 100K750-56 | | 10K | | |
| R23 | 100K750-39 | | 2K | | |
| R24 | 100K750-26 | | 10K | | |
| R25 | 100K750-32 | RESISTOR | 1K | 2.2% | 1/4W |
| C1 | 100K755-126 | CAPACITOR | 4.7 uF | 20% | 50V |
| C2 | 100K755-126 | | 4.7 uF | | |
| C3 | 100K755-106 | | 0.1 uF | | |
| C4 | | | | | |
| C5 | | | | | |
| C6 | | | | | |
| C7 | 100K755-106 | CAPACITOR | 0.1 uF | 20% | 50V |
| L1 | 100K406-7 | COIL, R.F. | 8.2 uH | 50% | |
| L2 | 100K406-7 | COIL, R.F. | 8.2 uH | 50% | |
| Q1 | 2004004-000 | TRANSISTOR | | | |
| Q2 | 2004004-000 | | | | |
| Q3 | | | | | |
| Q4 | | | | | |
| Q5 | | | | | |
| Q6 | | | | | |
| Q7 | 2004004-000 | | | | |
| Q8 | 2004004-000 | | | | |
| Q9 | | | | | |
| Q10 | | | | | |
| Q11 | | | | | |
| Q12 | | | | | |
| Q13 | 2004004-000 | TRANSISTOR | | | |
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| CR1 THRU | 2004183-001 | DIODE | | | |
| CR42 | | | | | |
| CR43 | | | | | |
| CR44 | | | | | |
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| CR46 | | | | | |
| CR47 | | | | | |
| CR48 | | | | | |
| CR49 | | | | | |
| CR50 | | | | | |
| CR51 THRU | 2004183-001 | DIODE | | | |
| CR64 | | | | | |
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| R1 THRU | SEE NOTE 5 | RELAY | 25v | | |
| K1 THRU | | | | | |
| K2 THRU | | | | | |
| K3 THRU | | | | | |
| K4 THRU | | | | | |
| K5 THRU | | | | | |
| K6 THRU | SEE NOTE 3 | | | | |
| K7 THRU | | | | | |
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RELAY CKT FOR K21-8 K22
TO SWITCH FROM POSITION
SHOWN, APPLY PLJ5 VOLTAGE
ON PIN 1

CKT FOR LATCHING RELAY K1-K3, K6-K10, K11-K15, & K16-K20 TO SWITCH AND LATCH FROM POSITION SHOWN, APPLY PLUS VOLTAGE ON PIN 10

REFERENCE

1. ASSEMBLY DWG NO.2003952
2. ASSEMBLY DWG NO.2003910
3. ASSEMBLY DWG NO.2003908

- VOLTAGE ON PIN 10
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX DESIGNATIONS WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
 3. RELAY TO BE EITHER 200468B-1 OR 200468B-2

[illegible]

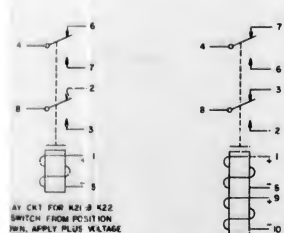
2005940

| REV | DATE | DESCRIPTION | BY | CHKD | APPV |
|-----|---------|--------------------------|----|------|------|
| 1 | 10/1/67 | INITIAL RELEASE 70443167 | | | |

| PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|----------|-------------|----------|-----|-----------|
| R1 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R2 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R3 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R4 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R5 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R6 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R7 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R8 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R9 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R10 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R11 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R12 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R13 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R14 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R15 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R16 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R17 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R18 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R19 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R20 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R21 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R22 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R23 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R24 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |
| R25 | 100K750-34 | RESISTOR | 10K | 2.2% 1/4W |

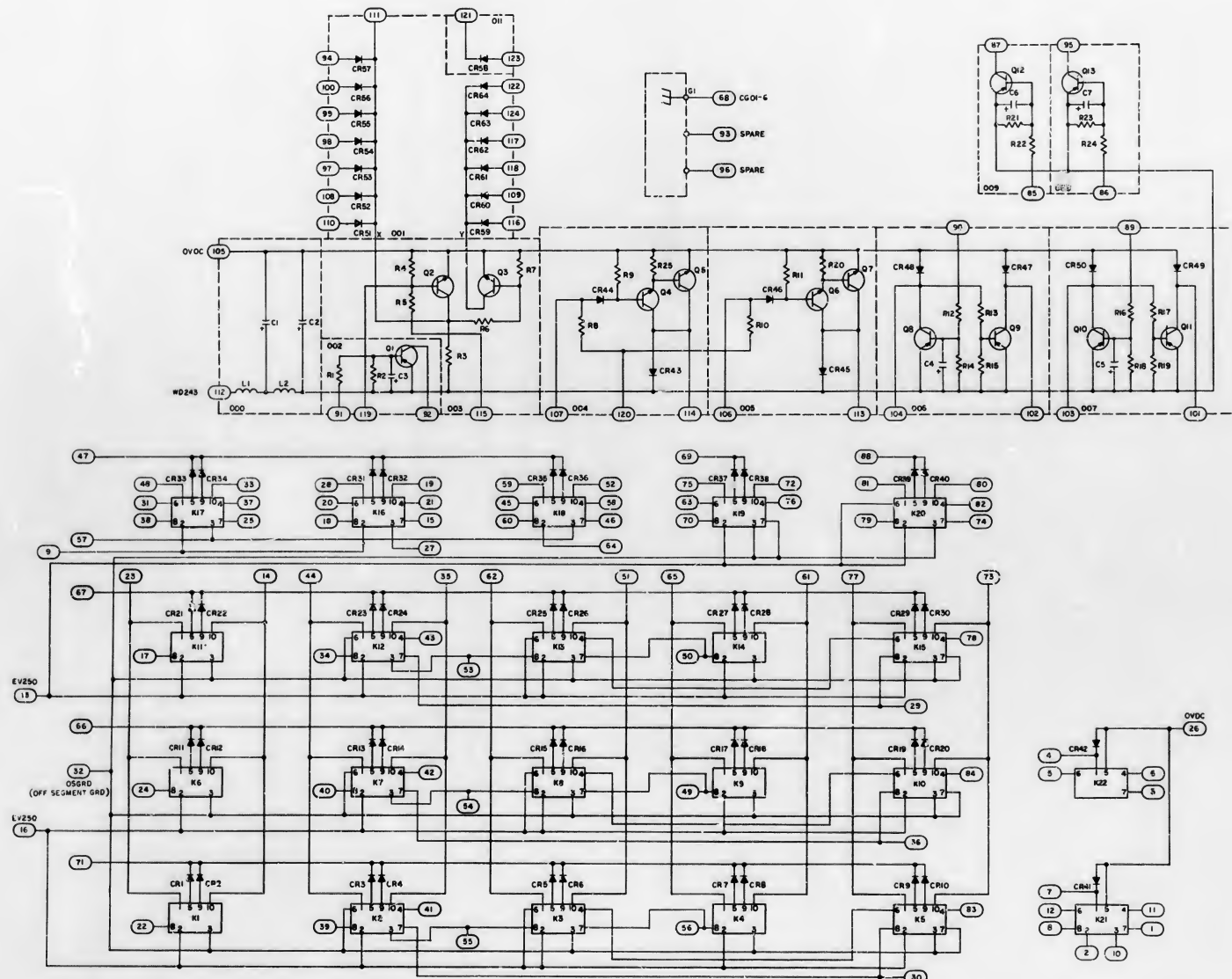
| | | | | |
|-----|------------|------------|--------|----------|
| C1 | 100K750-34 | CAPACITOR | 4.7 uF | ±10% 50V |
| C2 | 100K750-34 | CAPACITOR | 4.7 uF | ±10% 50V |
| C3 | 100K750-34 | CAPACITOR | 0.1 uF | ±10% 50V |
| C4 | 100K750-34 | CAPACITOR | 0.1 uF | ±10% 50V |
| C5 | 100K750-34 | CAPACITOR | 0.1 uF | ±10% 50V |
| C6 | 100K750-34 | CAPACITOR | 0.1 uF | ±10% 50V |
| C7 | 100K750-34 | CAPACITOR | 0.1 uF | ±10% 50V |
| L1 | 100K750-34 | COIL, R.F. | 8.2 uH | ±10% |
| L2 | 100K750-34 | COIL, R.F. | 8.2 uH | ±10% |
| Q1 | 2004004-G | TRANSISTOR | | |
| Q2 | 2004004-G | TRANSISTOR | | |
| Q3 | 2004004-G | TRANSISTOR | | |
| Q4 | 2004004-G | TRANSISTOR | | |
| Q5 | 2004004-G | TRANSISTOR | | |
| Q6 | 2004004-G | TRANSISTOR | | |
| Q7 | 2004004-G | TRANSISTOR | | |
| Q8 | 2004004-G | TRANSISTOR | | |
| Q9 | 2004004-G | TRANSISTOR | | |
| Q10 | 2004004-G | TRANSISTOR | | |
| Q11 | 2004004-G | TRANSISTOR | | |
| Q12 | 2004004-G | TRANSISTOR | | |
| Q13 | 2004004-G | TRANSISTOR | | |

| | | | | |
|-------|------------|-------|--|--|
| CR1 | 100K750-34 | DIODE | | |
| CR2 | 100K750-34 | DIODE | | |
| CR3 | 100K750-34 | DIODE | | |
| CR4 | 100K750-34 | DIODE | | |
| CR5 | 100K750-34 | DIODE | | |
| CR6 | 100K750-34 | DIODE | | |
| CR7 | 100K750-34 | DIODE | | |
| CR8 | 100K750-34 | DIODE | | |
| CR9 | 100K750-34 | DIODE | | |
| CR10 | 100K750-34 | DIODE | | |
| CR11 | 100K750-34 | DIODE | | |
| CR12 | 100K750-34 | DIODE | | |
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| CR14 | 100K750-34 | DIODE | | |
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| CR16 | 100K750-34 | DIODE | | |
| CR17 | 100K750-34 | DIODE | | |
| CR18 | 100K750-34 | DIODE | | |
| CR19 | 100K750-34 | DIODE | | |
| CR20 | 100K750-34 | DIODE | | |
| CR21 | 100K750-34 | DIODE | | |
| CR22 | 100K750-34 | DIODE | | |
| CR23 | 100K750-34 | DIODE | | |
| CR24 | 100K750-34 | DIODE | | |
| CR25 | 100K750-34 | DIODE | | |
| CR26 | 100K750-34 | DIODE | | |
| CR27 | 100K750-34 | DIODE | | |
| CR28 | 100K750-34 | DIODE | | |
| CR29 | 100K750-34 | DIODE | | |
| CR30 | 100K750-34 | DIODE | | |
| CR31 | 100K750-34 | DIODE | | |
| CR32 | 100K750-34 | DIODE | | |
| CR33 | 100K750-34 | DIODE | | |
| CR34 | 100K750-34 | DIODE | | |
| CR35 | 100K750-34 | DIODE | | |
| CR36 | 100K750-34 | DIODE | | |
| CR37 | 100K750-34 | DIODE | | |
| CR38 | 100K750-34 | DIODE | | |
| CR39 | 100K750-34 | DIODE | | |
| CR40 | 100K750-34 | DIODE | | |
| CR41 | 100K750-34 | DIODE | | |
| CR42 | 100K750-34 | DIODE | | |
| CR43 | 100K750-34 | DIODE | | |
| CR44 | 100K750-34 | DIODE | | |
| CR45 | 100K750-34 | DIODE | | |
| CR46 | 100K750-34 | DIODE | | |
| CR47 | 100K750-34 | DIODE | | |
| CR48 | 100K750-34 | DIODE | | |
| CR49 | 100K750-34 | DIODE | | |
| CR50 | 100K750-34 | DIODE | | |
| CR51 | 100K750-34 | DIODE | | |
| CR52 | 100K750-34 | DIODE | | |
| CR53 | 100K750-34 | DIODE | | |
| CR54 | 100K750-34 | DIODE | | |
| CR55 | 100K750-34 | DIODE | | |
| CR56 | 100K750-34 | DIODE | | |
| CR57 | 100K750-34 | DIODE | | |
| CR58 | 100K750-34 | DIODE | | |
| CR59 | 100K750-34 | DIODE | | |
| CR60 | 100K750-34 | DIODE | | |
| CR61 | 100K750-34 | DIODE | | |
| CR62 | 100K750-34 | DIODE | | |
| CR63 | 100K750-34 | DIODE | | |
| CR64 | 100K750-34 | DIODE | | |
| CR65 | 100K750-34 | DIODE | | |
| CR66 | 100K750-34 | DIODE | | |
| CR67 | 100K750-34 | DIODE | | |
| CR68 | 100K750-34 | DIODE | | |
| CR69 | 100K750-34 | DIODE | | |
| CR70 | 100K750-34 | DIODE | | |
| CR71 | 100K750-34 | DIODE | | |
| CR72 | 100K750-34 | DIODE | | |
| CR73 | 100K750-34 | DIODE | | |
| CR74 | 100K750-34 | DIODE | | |
| CR75 | 100K750-34 | DIODE | | |
| CR76 | 100K750-34 | DIODE | | |
| CR77 | 100K750-34 | DIODE | | |
| CR78 | 100K750-34 | DIODE | | |
| CR79 | 100K750-34 | DIODE | | |
| CR80 | 100K750-34 | DIODE | | |
| CR81 | 100K750-34 | DIODE | | |
| CR82 | 100K750-34 | DIODE | | |
| CR83 | 100K750-34 | DIODE | | |
| CR84 | 100K750-34 | DIODE | | |
| CR85 | 100K750-34 | DIODE | | |
| CR86 | 100K750-34 | DIODE | | |
| CR87 | 100K750-34 | DIODE | | |
| CR88 | 100K750-34 | DIODE | | |
| CR89 | 100K750-34 | DIODE | | |
| CR90 | 100K750-34 | DIODE | | |
| CR91 | 100K750-34 | DIODE | | |
| CR92 | 100K750-34 | DIODE | | |
| CR93 | 100K750-34 | DIODE | | |
| CR94 | 100K750-34 | DIODE | | |
| CR95 | 100K750-34 | DIODE | | |
| CR96 | 100K750-34 | DIODE | | |
| CR97 | 100K750-34 | DIODE | | |
| CR98 | 100K750-34 | DIODE | | |
| CR99 | 100K750-34 | DIODE | | |
| CR100 | 100K750-34 | DIODE | | |



CR1 FOR LATCHING RELAY R1-
R5, R6, R7, R8, R9, R10, R11, R12
TO SWITCH AND LATCH FROM
POSITION SHOWN, APPLY PLUS
VOLTAGE ON PIN 10

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-STD-883C
PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX
REFUGATIONS WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
REFUGATIONS WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH



REFERENCE

1. ASSEMBLY DWG NO. 2003982
2. ASSEMBLY DWG NO. 2003910
3. ASSEMBLY DWG NO. 2003906

| REV | DATE | CHG | BY | DESCRIPTION | SPECIFICATION |
|-----|---------|-----|----|--------------------------|---------------|
| 1 | 10/1/67 | | | INITIAL RELEASE 70443167 | |

| | | |
|------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|
| CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> DATE: 10/1/67 | MATERIAL PART NO. 2003940 QUANTITY 1 | LIST OF MATERIALS MATERIAL PART NO. 2003940 QUANTITY 1 |
|------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|

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|--------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|
| INSTALLED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> DATE: 10/1/67 | MATERIAL PART NO. 2003940 QUANTITY 1 | LIST OF MATERIALS MATERIAL PART NO. 2003940 QUANTITY 1 |
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| INSTALLED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> DATE: 10/1/67 | MATERIAL PART NO. 2003940 QUANTITY 1 | LIST OF MATERIALS MATERIAL PART NO. 2003940 QUANTITY 1 |
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SCHEMATIC

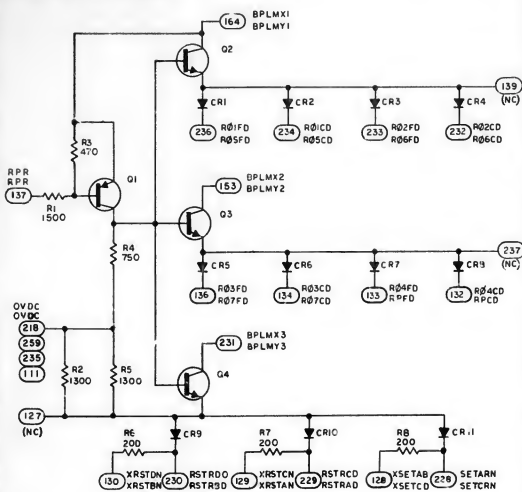
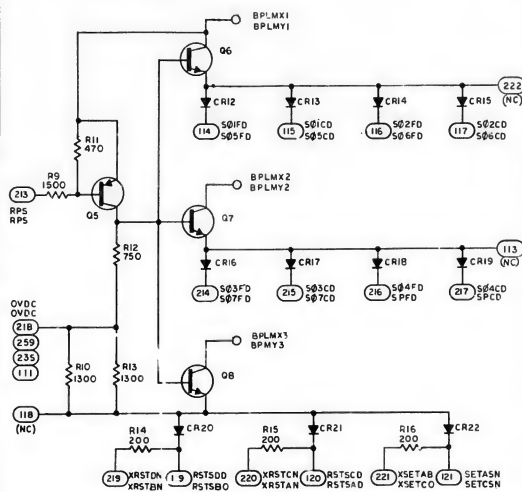
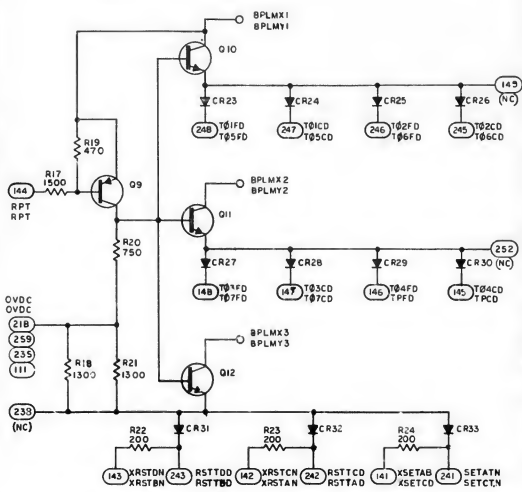
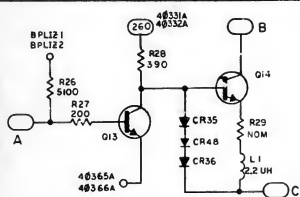
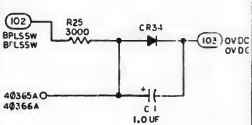
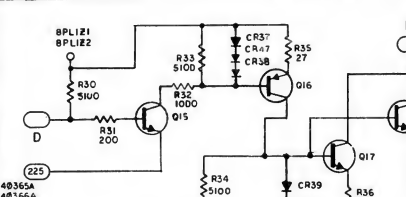
INDICATOR DRIVER

MODULE 01-06

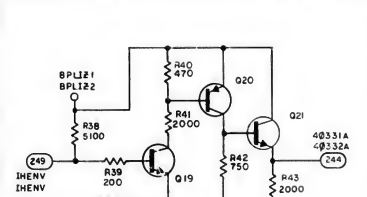
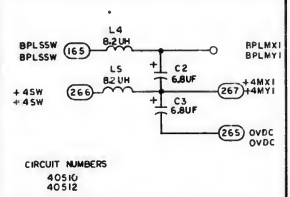
J 80230

2005940

SHEET 1 OF 1

CIRCUIT NO. 40351
40354CIRCUIT NO. 40352
40355CIRCUIT NO. 40353
40356CIRCUIT NO. 40365
40366CIRCUIT NUMBERS
40311 THRU 40318
40321 THRU 40328CIRCUIT NUMBERS
40361, 40362, 40367
40363, 40364, 40368

NOMINAL CURRENT 450 mA EACH OUTPUT

CIRCUIT NUMBERS
40331
40332

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS ON
TOLERANCES ON
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
NEXT ASSY USED ON
APPLICATION

R29, R50, R51

| PART NO. | VALUE |
|-------------|-------|
| 1006789-215 | 5.62 |
| -219 | 5.69 |
| -220 | 5.76 |
| -221 | 5.83 |
| -222 | 5.90 |
| -223 | 5.97 |
| -224 | 6.04 |
| -225 | 6.12 |
| -226 | 6.19 |
| -227 | 6.26 |
| -228 | 6.34 |
| -229 | 6.42 |
| -230 | 6.49 |
| -231 | 6.57 |
| -232 | 6.65 |
| -233 | 6.73 |
| -234 | 6.81 |
| -235 | 6.90 |
| -236 | 6.99 |
| -237 | 7.06 |
| -238 | 7.15 |
| -239 | 7.23 |
| -240 | 7.32 |
| -241 | 7.41 |
| -242 | 7.50 |
| -243 | 7.59 |
| -244 | 7.68 |
| -245 | 7.77 |
| -246 | 7.86 |
| -247 | 7.95 |
| -248 | 8.04 |
| -249 | 8.13 |
| -250 | 8.22 |
| -251 | 8.31 |
| -252 | 8.40 |
| -253 | 8.49 |
| -254 | 8.58 |
| -255 | 8.67 |
| -256 | 8.76 |
| -257 | 8.85 |
| -258 | 8.94 |
| -259 | 9.03 |
| -260 | 9.12 |
| -261 | 9.21 |
| -262 | 9.30 |
| -263 | 9.39 |
| -264 | 9.48 |
| -265 | 9.57 |
| -266 | 9.66 |
| -267 | 9.75 |
| -268 | 9.84 |
| -269 | 9.93 |
| -270 | 10.02 |
| -271 | 10.11 |
| -272 | 10.20 |
| -273 | 10.29 |
| -274 | 10.38 |
| -275 | 10.47 |
| -276 | 10.56 |
| -277 | 10.65 |
| -278 | 10.74 |
| -279 | 10.83 |
| -280 | 10.92 |
| -281 | 11.01 |
| -282 | 11.10 |
| -283 | 11.19 |
| -284 | 11.28 |
| -285 | 11.37 |
| -286 | 11.46 |
| -287 | 11.55 |
| -288 | 11.64 |
| -289 | 11.73 |
| -290 | 11.82 |
| -291 | 11.91 |
| -292 | 12.00 |
| -293 | 12.09 |
| -294 | 12.18 |
| -295 | 12.27 |
| -296 | 12.36 |
| -297 | 12.45 |
| -298 | 12.54 |
| -299 | 12.63 |
| -300 | 12.72 |
| -301 | 12.81 |
| -302 | 12.90 |
| -303 | 12.99 |
| -304 | 13.08 |
| -305 | 13.17 |
| -306 | 13.26 |
| -307 | 13.35 |
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| REVISIONS | | | | | | | | TDRR 32348 | |
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| LIST OF MATERIALS | | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | |
| DRAWN | <i>Sam L. Miller</i> | 10 OCT 66 | AGC WIRELIST | |
| CHECKED | <i>W. J. Miller</i> | 10 OCT 66 | | |
| APPROVED | <i>W. J. Miller</i> | 10 OCT 66 | | |
| APPROVED | <i>W. J. Miller</i> | 10 OCT 66 | | |
| APPROVED | <i>W. J. Miller</i> | 15 DEC 66 | CODE IDENT NO. | SIZE |
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| DS136B | 1 | TBI-87 | TB2-88 | 107 | DS115J |
| SPARE | 2 | | TB2-87 | 108 | DS134J |
| DS133K | 3 | TBI-86 | TB2-86 | 109 | DS134F |
| DS131H | 4 | TBI-85 | TB2-85 | 110 | DS132F |
| DS133F | 5 | TBI-84 | TB2-84 | 111 | DS132N |
| DS131F | 6 | TBI-83 | TB2-83 | 112 | DS134K |
| DS131N | 7 | TBI-81 | TB2-82 | 113 | DS132K |
| SPARE I/O | 8 | TBI-82 | TB2-81 | 114 | DS132F |
| DS133M | 9 | TBI-80 | TB2-80 | 115 | DS151H |
| DS131K | 10 | TBI-79 | TB2-79 | 116 | DS115H |
| DS135J | 11 | TBI-78 | TB2-78 | 117 | DS115H |
| DS131J | 12 | TBI-77 | TB2-77 | 118 | DS121M |
| DS134H | 13 | TBI-76 | TB2-76 | 119 | DS115E |
| SPARE | 14 | | TB2-75 | 120 | DS115M |
| DS113M | 15 | TBI-75 | TB2-74 | 121 | DS121E |
| DS133J | 16 | TBI-74 | TB2-73 | 122 | DS132E |
| DS135K | 17 | TBI-73 | TB2-72 | 123 | DS111N |
| DS131P | 18 | TBI-72 | TB2-71 | 124 | DS134E |
| DS131P | 19 | TBI-71 | TB2-70 | 125 | DS134M |
| SPARE I/O | 20 | TBI-70 | TB2-69 | 126 | DS121J |
| DS131E | 21 | TBI-69 | TB2-68 | 127 | DS122N |
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| DS131M | 23 | TBI-67 | TB2-66 | 129 | DS132M |
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| DS133N | 25 | TBI-65 | TB2-64 | 131 | DS124N |
| SPARE | 26 | | TB2-63 | 132 | DS161K |
| DS131H | 27 | TBI-64 | TB2-62 | 133 | DS121E |
| DS131K | 28 | TBI-63 | TB2-61 | 134 | DS121H |
| DS133E | 29 | TBI-62 | TB2-60 | 135 | DS122F |
| DS135F | 30 | TBI-61 | TB2-59 | 136 | DS111E |
| DS115J | 31 | TBI-60 | TB2-58 | 137 | DS121H |
| DS127N | 32 | TBI-59 | TB2-57 | 138 | DS123K |
| DS128F | 33 | TBI-58 | TB2-56 | 139 | DS121E |
| DS135H | 34 | TBI-57 | TB2-55 | 140 | DS125F |
| DS133H | 35 | TBI-56 | TB2-54 | 141 | DS122K |
| DS127F | 36 | TBI-55 | TB2-53 | 142 | DS124F |
| DS126B | 37 | TBI-54 | TB2-52 | 143 | DS112E |
| DS171N | 38 | TBI-53 | TB2-51 | 144 | DS125J |
| DS172H | 39 | TBI-52 | TB2-50 | 145 | DS122E |
| DS152K | 40 | TBI-51 | TB2-49 | 146 | DS112J |
| DS142J | 41 | TBI-50 | TB2-48 | 147 | DS122E |
| DS142F | 42 | TBI-49 | TB2-47 | 148 | DS122M |
| DS151N | 43 | TBI-48 | TB2-46 | 149 | DS123E |
| DS141H | 44 | TBI-47 | TB2-45 | 150 | DS123E |
| DS172E | 45 | TBI-46 | TB2-44 | 151 | DS125M |
| DS114H | 46 | TBI-45 | TB2-43 | 152 | DS125K |
| DS142K | 47 | TBI-44 | TB2-42 | 153 | DS111J |
| DS150F | 48 | TBI-43 | TB2-41 | 154 | DS124M |
| SPARE | 49 | | TB2-40 | 155 | DS125E |
| DS121N | 50 | TBI-42 | TB2-39 | 156 | DS125H |
| DS152H | 51 | TBI-41 | TB2-38 | 157 | DS123E |
| DS172K | 52 | TBI-40 | TB2-37 | 158 | DS123J |
| DS152M | 53 | TBI-39 | TB2-36 | 159 | DS111M |
| DS172J | 54 | TBI-38 | TB2-35 | 160 | DS123E |
| DS126A | 55 | TBI-37 | TB2-34 | 161 | DS123H |
| DS116B | 56 | TBI-36 | TB2-33 | 162 | DS123E |
| DS172M | 57 | TBI-35 | TB2-32 | 163 | DS112M |
| DS142M | 58 | TBI-34 | TB2-31 | 164 | DS112K |
| DS152E | 59 | TBI-33 | TB2-30 | 165 | EV10J |
| DS114K | 60 | TBI-32 | TB2-29 | 166 | EV10J |
| DS112N | 61 | TBI-31 | TB2-28 | 167 | DS111K |
| DS153N | 62 | TBI-30 | TB2-27 | 168 | DS112H |
| DS127F | 63 | TBI-29 | TB2-26 | 169 | DS124H |
| DS127E | 64 | TBI-28 | TB2-25 | 170 | EV25F |
| DS141H | 65 | TBI-27 | TB2-26 | 171 | SPARE |
| DS152J | 66 | TBI-26 | TB2-25 | 172 | SPARE |
| DS125N | 67 | TBI-25 | TB2-24 | 173 | SPARE |
| DS114E | 68 | TBI-24 | TB2-23 | 174 | DS124E |
| DS114M | 69 | TBI-23 | TB2-22 | 175 | DS124E |
| DS121A | 70 | TBI-22 | TB2-21 | 176 | DS124E |
| DS114F | 71 | TBI-21 | TB2-20 | 177 | CGD1J |
| DS171F | 72 | TBI-20 | TB2-19 | 178 | SPARE |
| DS114N | 73 | TBI-19 | TB2-18 | 179 | RD21J |
| DS116A | 74 | TBI-18 | TB2-17 | 180 | RD21J |
| DS141J | 75 | TBI-17 | TB2-16 | 181 | WD447 |
| DS141F | 76 | TBI-16 | TB2-15 | 182 | DS25A |
| DS171E | 77 | TBI-15 | TB2-14 | 183 | CGD |
| DS151K | 78 | TBI-14 | TB2-13 | 184 | CGD |
| DS113J | 79 | TBI-13 | TB2-12 | 185 | WD447 |
| DS121E | 80 | TBI-12 | TB2-11 | 186 | WD449 |
| DS151F | 81 | TBI-11 | TB2-10 | 187 | DS124K |
| DS171J | 82 | TBI-10 | TB2-9 | 188 | DE25S |
| DS136A | 83 | TBI-9 | TB2-8 | 189 | SPARE |
| DS171M | 84 | TBI-8 | TB2-7 | 190 | WD447 |
| DS141K | 85 | TBI-7 | TB2-6 | 191 | WD449 |
| DS151J | 86 | TBI-6 | TB2-5 | 192 | DS111H |
| DS135N | 87 | TBI-5 | TB2-4 | 193 | W-438 |
| DS25F | 88 | TBI-4 | TB2-3 | 194 | W-437 |
| DS171K | 89 | TBI-3 | TB2-2 | 195 | WD447 |
| DS151M | 90 | TBI-2 | TB2-1 | 196 | WD447 |
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| DS151E | 93 | TBI-0 | TB2-0 | 199 | D-257 |
| DS151H | 94 | TBI-0 | TB2-0 | 200 | D-257 |
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| DS141E | 97 | TBI-0 | TB2-0 | 203 | WD449 |
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| DS25F | 100 | TBI-0 | TB2-0 | 206 | D-256 |
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| DS132H | 104 | TBI-0 | TB2-0 | 210 | DS124J |
| DS132J | 105 | TBI-0 | TB2-0 | 211 | DE257 |
| DS118F | 106 | TBI-0 | TB2-0 | 212 | DE253 |

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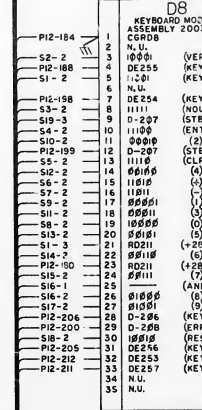
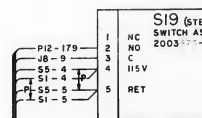
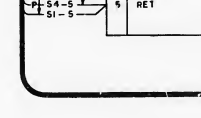
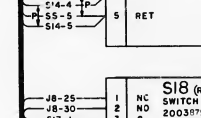
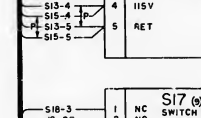
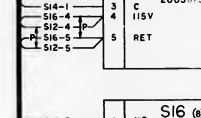
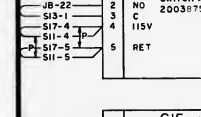
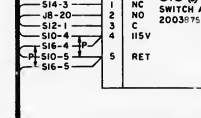
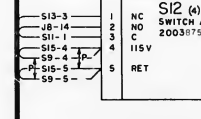
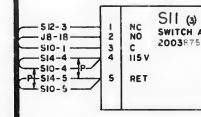
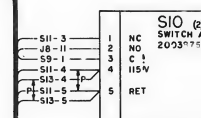
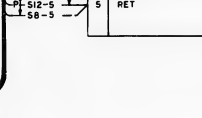
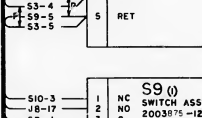
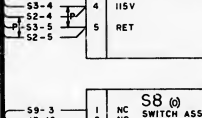
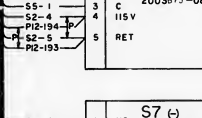
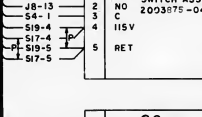
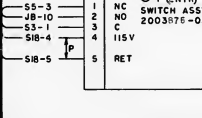
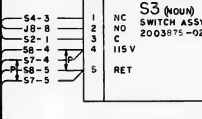
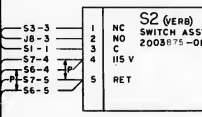
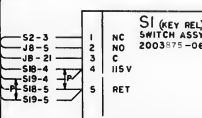
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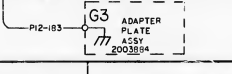
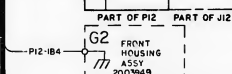
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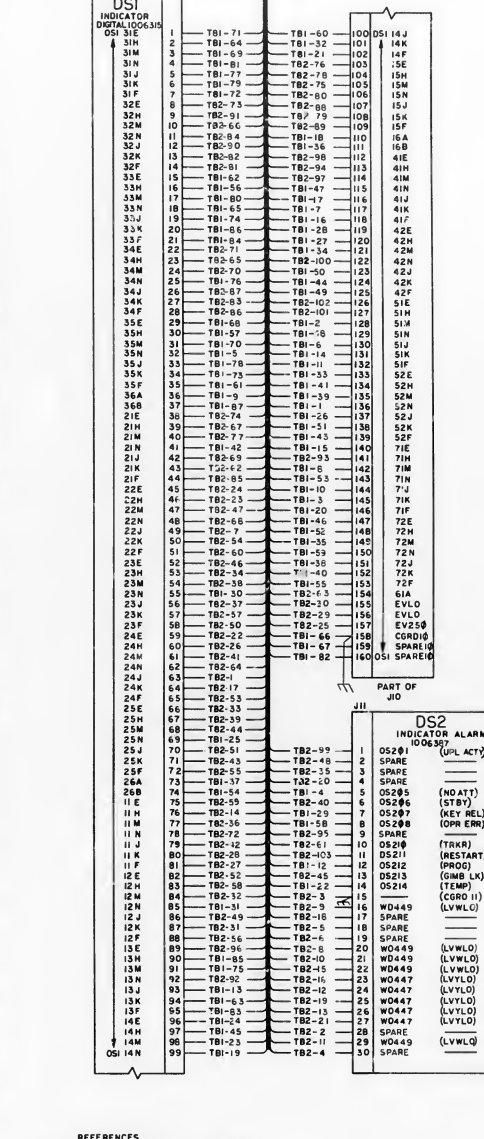
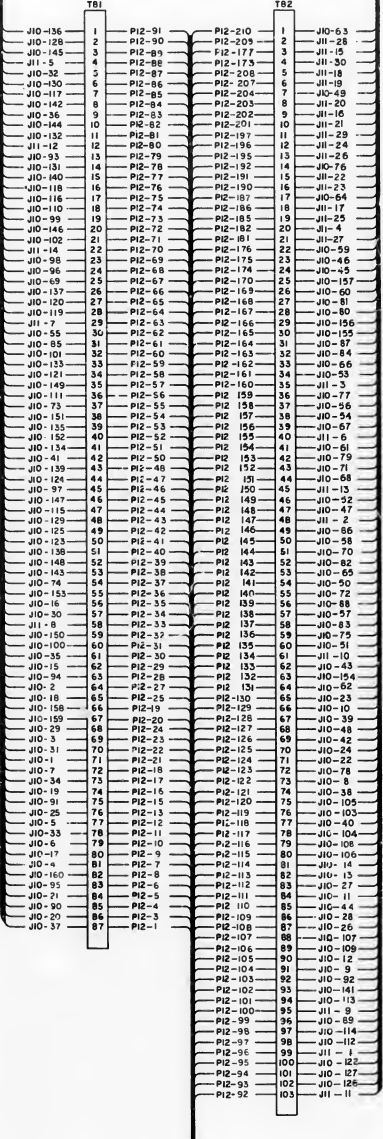
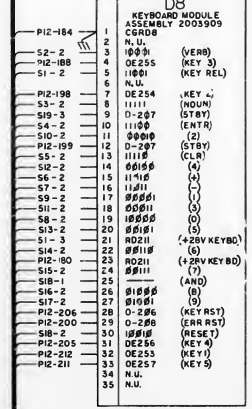
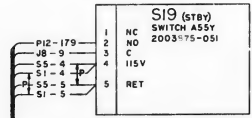
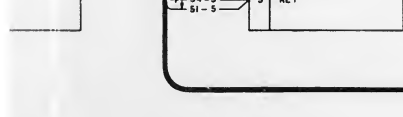
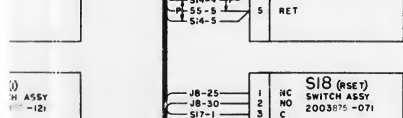
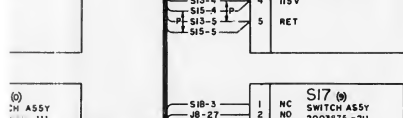
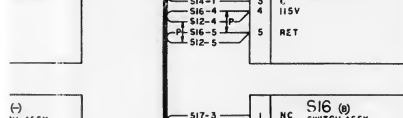
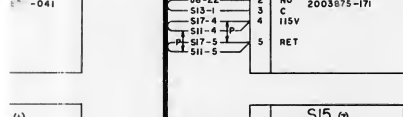
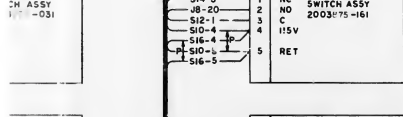
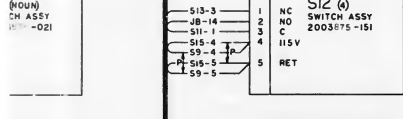
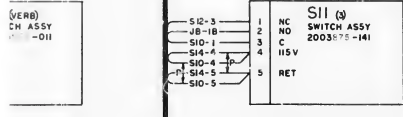
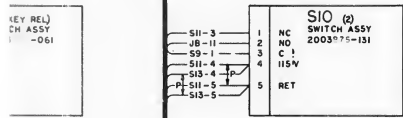
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- NOTES
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
 - PRESCRIBED BY MIL-D-70327
 - PARTIAL REFERENCE DESIGNATIONS ARE SHOWN.
 - PREFIX THE DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
 - N.U. DENOTES NOT USED
 - SIGNAL REF ARE THOSE OF MAIN DSKY



2005954



REFERENCES

| | |
|------------|-------------------------|
| 1. 2003885 | MAIN HOUSING ASSEMBLY |
| 2. 2003909 | KEYBOARD MODULE |
| 3. 2003952 | INDICATOR DRIVER MODULE |
| 4. 2003901 | POWER SUPPLY |
| 5. 2003886 | HARNES |
| 6. 2003934 | MAIN ASSEMBLY |

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HOUSTON TEXAS

INTERCONNECTING DIAGRAM

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| DS141F | 71 | J2-60 | | J12-19 | 77 | DS125E | | | | | |
| DS171F | 72 | J5-63 | | | 78 | SPARE | | | | | |
| DS114N | 73 | J6-76 | | | 79 | DS117 | | | | | |
| DS161A | 74 | J6-79 | | T83-12 | 80 | RO21 | | | | | |
| DS141J | 75 | J3-49 | | T83-5 | 81 | WD447 | | | | | |
| DS141F | 76 | J3-49 | | T83-82 | 82 | DS286 | | | | | |
| DS171E | 77 | J3-41 | | G1- | 83 | CGD | | | | | |
| DS181K | 78 | J3-89 | | T83-8 | 84 | CGD | | | | | |
| DS134J | 79 | J1-70 | | J7-5 | 85 | WD447 | | | | | |
| DS212 | 80 | J3-60 | | T83-4 | 86 | WD449 | | | | | |
| DS151F | 81 | J3-55 | | J6-42 | 87 | DS126K | | | | | |
| DS171J | 82 | J3-50 | | J6-84 | 88 | WD449 | | | | | |
| DS156A | 83 | J1-74 | | | 89 | SPARE | | | | | |
| DS171H | 84 | J3-54 | | | 90 | WD447 | | | | | |
| DS141K | 85 | J3-54 | | | 91 | WD449 | | | | | |
| DS151J | 86 | J3-56 | | J6-17 | 92 | DS111H | | | | | |
| DS135J | 87 | J3-56 | | T83-9 | 93 | W-437 | | | | | |
| DS295 | 88 | J3-38 | | | 94 | DS125E | | | | | |
| DS171K | 89 | J3-49 | | | 95 | WD447 | | | | | |
| DS151H | 90 | J3-49 | | | 96 | WD447 | | | | | |
| DS152N | 91 | J2-83 | | | 97 | WD449 | | | | | |
| DS211 | 92 | J5-8 | | T83-13 | 98 | O-254 | | | | | |
| DS151E | 93 | J3-50 | | T83-13 | 99 | O-254 | | | | | |
| DS151H | 94 | J3-22 | | T83-11 | 100 | DS287 | | | | | |
| DS142N | 95 | J2-36 | | | 101 | WD449 | | | | | |
| DS21H | 96 | J3-40 | | | 102 | WD449 | | | | | |
| DS141E | 97 | J2-84 | | | 103 | WD449 | | | | | |
| DS141M | 98 | J3-40 | | J6-56 | 104 | DS212 | | | | | |
| DS113E | 99 | J3-40 | | T83-15 | 105 | DS125E | | | | | |
| DS299 | 100 | J3-18 | | T83-15 | 106 | D-286 | | | | | |
| DS141H | 101 | J3-24 | | | 107 | WD449 | | | | | |
| DS171H | 102 | J3-40 | | | 108 | WD449 | | | | | |
| DS113N | 103 | J3-76 | | | 109 | WD449 | | | | | |
| DS132H | 104 | J4-22 | | J6-49 | 110 | DS212 | | | | | |
| DS132J | 105 | J4-22 | | T83-9 | 111 | DS212 | | | | | |
| DS115F | 106 | J4-60 | | T83-14 | 112 | DS253 | | | | | |

| PART OF J12 | | |
|-------------|---------|-----------------|
| 1 | J1-82 | 44-70 07 DS115J |
| 2 | J4-49 | 08 DS114J |
| 3 | J4-54 | 09 DS114F |
| 4 | J4-58 | 10 DS115F |
| 5 | J4-83 | 11 DS132N |
| 6 | J4-42 | 12 DS134K |
| 7 | J4-41 | 13 DS132K |
| 8 | J4-55 | 14 DS132F |
| 9 | J4-76 | 15 DS115M |
| 10 | J4-21 | 16 DS115K |
| 11 | J4-50 | 17 DS115H |
| 12 | J4-56 | 18 DS121M |
| 13 | J4-104 | 19 DS115L |
| 14 | J4-120 | 20 DS115M |
| 15 | J4-29 | 21 DS121E |
| 16 | J4-102 | 22 DS115M |
| 17 | J4-73 | 23 DS115N |
| 18 | J4-36 | 24 DS114E |
| 19 | J4-127 | 25 DS114M |
| 20 | J12-184 | 26 DS121V |
| 21 | J4-30 | 27 DS121H |
| 22 | J4-34 | 28 DS132M |
| 23 | J4-39 | 29 DS132N |
| 24 | J4-24 | 30 DS134M |
| 25 | J4-64 | 31 DS125M |
| 26 | J4-6 | 32 DS161A |
| 27 | J4-43 | 33 DS120K |
| 28 | J4-21 | 34 DS122F |
| 29 | J4-55 | 35 DS112E |
| 30 | J4-53 | 36 DS123K |
| 31 | J4-17 | 37 DS112F |
| 32 | J4-78 | 38 DS123K |
| 33 | J4-53 | 39 DS112F |
| 34 | J4-17 | 40 DS125F |
| 35 | J4-41 | 41 DS122K |
| 36 | J4-54 | 42 DS114F |
| 37 | J4-29 | 43 DS112E |
| 38 | J4-82 | 44 DS125F |
| 39 | J4-78 | 45 DS125F |
| 40 | J4-78 | 46 DS125F |
| 41 | J4-78 | 47 DS125F |
| 42 | J4-78 | 48 DS125F |
| 43 | J4-78 | 49 DS125F |
| 44 | J4-78 | 50 DS125F |
| 45 | J4-78 | 51 DS125F |
| 46 | J4-78 | 52 DS125F |
| 47 | J4-78 | 53 DS125F |
| 48 | J4-78 | 54 DS125F |
| 49 | J4-78 | 55 DS125F |
| 50 | J4-78 | 56 DS125F |
| 51 | J4-78 | 57 DS125F |
| 52 | J4-78 | 58 DS125F |
| 53 | J4-78 | 59 DS125F |
| 54 | J4-78 | 60 DS125F |
| 55 | J4-78 | 61 DS125F |
| 56 | J4-78 | 62 DS125F |
| 57 | J4-78 | 63 DS125F |
| 58 | J4-78 | 64 DS125F |
| 59 | J4-78 | 65 DS125F |
| 60 | J4-78 | 66 DS125F |
| 61 | J4-78 | 67 DS125F |
| 62 | J4-78 | 68 DS125F |
| 63 | J4-78 | 69 DS125F |
| 64 | J4-78 | 70 DS125F |
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| 66 | J4-78 | 72 DS125F |
| 67 | J4-78 | 73 DS125F |
| 68 | J4-78 | 74 DS125F |
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| 70 | J4-78 | 76 DS125F |
| 71 | J4-78 | 77 DS125F |
| 72 | J4-78 | 78 DS125F |
| 73 | J4-78 | 79 DS125F |
| 74 | J4-78 | 80 DS125F |
| 75 | J4-78 | 81 DS125F |
| 76 | J4-78 | 82 DS125F |
| 77 | J4-78 | 83 DS125F |
| 78 | J4-78 | 84 DS125F |
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| 81 | J4-78 | 87 DS125F |
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| 83 | J4-78 | 89 DS125F |
| 84 | J4-78 | 90 DS125F |
| 85 | J4-78 | 91 DS125F |
| 86 | J4-78 | 92 DS125F |
| 87 | J4-78 | 93 DS125F |
| 88 | J4-78 | 94 DS125F |
| 89 | J4-78 | 95 DS125F |
| 90 | J4-78 | 96 DS125F |
| 91 | J4-78 | 97 DS125F |
| 92 | J4-78 | 98 DS125F |
| 93 | J4-78 | 99 DS125F |
| 94 | J4-78 | 100 DS125F |
| 95 | J4-78 | 101 DS125F |
| 96 | J4-78 | 102 DS125F |
| | | |

| INDICATOR DRIVER MODULE ASSEMBLY 2003992 | | |
|---------------------------------------------|-----|--------|
| OS60 | 32 | OS60 |
| YD86 | 33 | YD86 |
| OS12M | 34 | OS12M |
| YD97 | 35 | YD97 |
| OS14E | 36 | OS14E |
| OS15H | 37 | OS15H |
| OS16H | 38 | OS16H |
| OS17H | 39 | OS17H |
| OS18H | 40 | OS18H |
| OS19H | 41 | OS19H |
| OS20H | 42 | OS20H |
| OS21H | 43 | OS21H |
| OS22H | 44 | OS22H |
| OS23H | 45 | OS23H |
| OS24H | 46 | OS24H |
| OS25H | 47 | OS25H |
| OS26H | 48 | OS26H |
| OS27H | 49 | OS27H |
| OS28H | 50 | OS28H |
| OS29H | 51 | OS29H |
| OS30H | 52 | OS30H |
| OS31H | 53 | OS31H |
| OS32H | 54 | OS32H |
| OS33H | 55 | OS33H |
| OS34H | 56 | OS34H |
| OS35H | 57 | OS35H |
| OS36H | 58 | OS36H |
| OS37H | 59 | OS37H |
| OS38H | 60 | OS38H |
| OS39H | 61 | OS39H |
| OS40H | 62 | OS40H |
| OS41H | 63 | OS41H |
| OS42H | 64 | OS42H |
| OS43H | 65 | OS43H |
| OS44H | 66 | OS44H |
| OS45H | 67 | OS45H |
| OS46H | 68 | OS46H |
| OS47H | 69 | OS47H |
| OS48H | 70 | OS48H |
| OS49H | 71 | OS49H |
| OS50H | 72 | OS50H |
| OS51H | 73 | OS51H |
| OS52H | 74 | OS52H |
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| OS54H | 76 | OS54H |
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| OS56H | 78 | OS56H |
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| OS58H | 80 | OS58H |
| OS59H | 81 | OS59H |
| OS60H | 82 | OS60H |
| OS61H | 83 | OS61H |
| OS62H | 84 | OS62H |
| OS63H | 85 | OS63H |
| OS64H | 86 | OS64H |
| OS65H | 87 | OS65H |
| OS66H | 88 | OS66H |
| OS67H | 89 | OS67H |
| OS68H | 90 | OS68H |
| OS69H | 91 | OS69H |
| OS70H | 92 | OS70H |
| OS71H | 93 | OS71H |
| OS72H | 94 | OS72H |
| OS73H | 95 | OS73H |
| OS74H | 96 | OS74H |
| OS75H | 97 | OS75H |
| OS76H | 98 | OS76H |
| OS77H | 99 | OS77H |
| OS78H | 100 | OS78H |
| OS79H | 101 | OS79H |
| OS80H | 102 | OS80H |
| OS81H | 103 | OS81H |
| OS82H | 104 | OS82H |
| OS83H | 105 | OS83H |
| OS84H | 106 | OS84H |
| OS85H | 107 | OS85H |
| OS86H | 108 | OS86H |
| OS87H | 109 | OS87H |
| OS88H | 110 | OS88H |
| OS89H | 111 | OS89H |
| OS90H | 112 | OS90H |
| OS91H | 113 | OS91H |
| OS92H | 114 | OS92H |
| OS93H | 115 | OS93H |
| OS94H | 116 | OS94H |
| OS95H | 117 | OS95H |
| OS96H | 118 | OS96H |
| OS97H | 119 | OS97H |
| OS98H | 120 | OS98H |
| OS99H | 121 | OS99H |
| OS100H | 122 | OS100H |
| OS101H | 123 | OS101H |
| OS102H | 124 | OS102H |

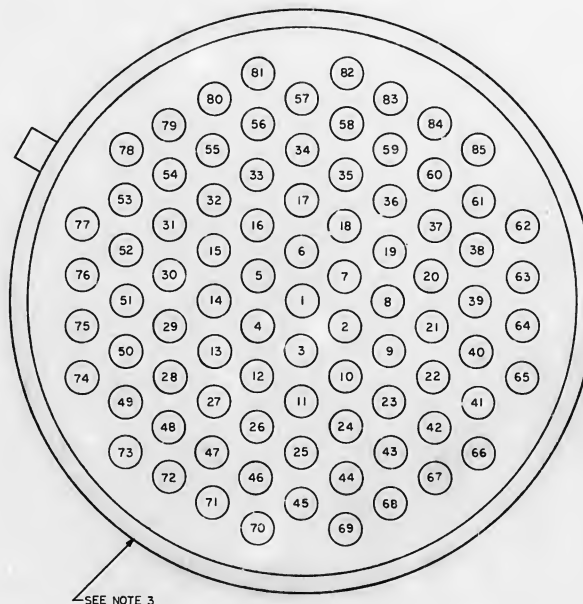
| INDICATOR DRIVER MODULE ASSEMBLY 2003992 | | |
|---------------------------------------------|-----|--------|
| OS60 | 32 | OS60 |
| YD86 | 33 | YD86 |
| OS12M | 34 | OS12M |
| YD97 | 35 | YD97 |
| OS14E | 36 | OS14E |
| OS15H | 37 | OS15H |
| OS16H | 38 | OS16H |
| OS17H | 39 | OS17H |
| OS18H | 40 | OS18H |
| OS19H | 41 | OS19H |
| OS20H | 42 | OS20H |
| OS21H | 43 | OS21H |
| OS22H | 44 | OS22H |
| OS23H | 45 | OS23H |
| OS24H | 46 | OS24H |
| OS25H | 47 | OS25H |
| OS26H | 48 | OS26H |
| OS27H | 49 | OS27H |
| OS28H | 50 | OS28H |
| OS29H | 51 | OS29H |
| OS30H | 52 | OS30H |
| OS31H | 53 | OS31H |
| OS32H | 54 | OS32H |
| OS33H | 55 | OS33H |
| OS34H | 56 | OS34H |
| OS35H | 57 | OS35H |
| OS36H | 58 | OS36H |
| OS37H | 59 | OS37H |
| OS38H | 60 | OS38H |
| OS39H | 61 | OS39H |
| OS40H | 62 | OS40H |
| OS41H | 63 | OS41H |
| OS42H | 64 | OS42H |
| OS43H | 65 | OS43H |
| OS44H | 66 | OS44H |
| OS45H | 67 | OS45H |
| OS46H | 68 | OS46H |
| OS47H | 69 | OS47H |
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| OS49H | 71 | OS49H |
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| OS52H | 74 | OS52H |
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| OS56H | 78 | OS56H |
| OS57H | 79 | OS57H |
| OS58H | 80 | OS58H |
| OS59H | 81 | OS59H |
| OS60H | 82 | OS60H |
| OS61H | 83 | OS61H |
| OS62H | 84 | OS62H |
| OS63H | 85 | OS63H |
| OS64H | 86 | OS64H |
| OS65H | 87 | OS65H |
| OS66H | 88 | OS66H |
| OS67H | 89 | OS67H |
| OS68H | 90 | OS68H |
| OS69H | 91 | OS69H |
| OS70H | 92 | OS70H |
| OS71H | 93 | OS71H |
| OS72H | 94 | OS72H |
| OS73H | 95 | OS73H |
| OS74H | 96 | OS74H |
| OS75H | 97 | OS75H |
| OS76H | 98 | OS76H |
| OS77H | 99 | OS77H |
| OS78H | 100 | OS78H |
| OS79H | 101 | OS79H |
| OS80H | 102 | OS80H |
| OS81H | 103 | OS81H |
| OS82H | 104 | OS82H |
| OS83H | 105 | OS83H |
| OS84H | 106 | OS84H |
| OS85H | 107 | OS85H |
| OS86H | 108 | OS86H |
| OS87H | 109 | OS87H |
| OS88H | 110 | OS88H |
| OS89H | 111 | OS89H |
| OS90H | 112 | OS90H |
| OS91H | 113 | OS91H |
| OS92H | 114 | OS92H |
| OS93H | 115 | OS93H |
| OS94H | 116 | OS94H |
| OS95H | 117 | OS95H |
| OS96H | 118 | OS96H |
| OS97H | 119 | OS97H |
| OS98H | 120 | OS98H |
| OS99H | 121 | OS99H |
| OS100H | 122 | OS100H |
| OS101H | 123 | OS101H |
| OS102H | 124 | OS102H |

| INDICATOR DRIVER MODULE ASSEMBLY 2003992 | | |
|---------------------------------------------|-----|--------|
| OS60 | 32 | OS60 |
| YD86 | 33 | YD86 |
| OS12M | 34 | OS12M |
| YD97 | 35 | YD97 |
| OS14E | 36 | OS14E |
| OS15H | 37 | OS15H |
| OS16H | 38 | OS16H |
| OS17H | 39 | OS17H |
| OS18H | 40 | OS18H |
| OS19H | 41 | OS19H |
| OS20H | 42 | OS20H |
| OS21H | 43 | OS21H |
| OS22H | 44 | OS22H |
| OS23H | 45 | OS23H |
| OS24H | 46 | OS24H |
| OS25H | 47 | OS25H |
| OS26H | 48 | OS26H |
| OS27H | 49 | OS27H |
| OS28H | 50 | OS28H |
| OS29H | 51 | OS29H |
| OS30H | 52 | OS30H |
| OS31H | 53 | OS31H |
| OS32H | 54 | OS32H |
| OS33H | 55 | OS33H |
| OS34H | 56 | OS34H |
| OS35H | 57 | OS35H |
| OS36H | 58 | OS36H |
| OS37H | 59 | OS37H |
| OS38H | 60 | OS38H |
| OS39H | 61 | OS39H |
| OS40H | 62 | OS40H |
| OS41H | 63 | OS41H |
| OS42H | 64 | OS42H |
| OS43H | 65 | OS43H |
| OS44H | 66 | OS44H |
| OS45H | 67 | OS45H |
| OS46H | 68 | OS46H |
| OS47H | 69 | OS47H |
| OS48H | 70 | OS48H |
| OS49H | 71 | OS49H |
| OS50H | 72 | OS50H |
| OS51H | 73 | OS51H |
| OS52H | 74 | OS52H |
| OS53H | 75 | OS53H |
| OS54H | 76 | OS54H |
| OS55H | 77 | OS55H |
| OS56H | 78 | OS56H |
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| OS59H | 81 | OS59H |
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| OS61H | 83 | OS61H |
| OS62H | 84 | OS62H |
| OS63H | 85 | OS63H |
| OS64H | 86 | OS64H |
| OS65H | 87 | OS65H |
| OS66H | 88 | OS66H |
| OS67H | 89 | OS67H |
| OS68H | 90 | OS68H |
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| OS70H | 92 | OS70H |
| OS71H | 93 | OS71H |
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| OS79H | 101 | OS79H |
| OS80H | 102 | OS80H |
| OS81H | 103 | OS81H |
| OS82H | 104 | OS82H |
| OS83H | 105 | OS83H |
| OS84H | 106 | OS84H |
| OS85H | 107 | OS85H |
| OS86H | 108 | OS86H |
| OS87H | 109 | OS87H |
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| OS89H | 111 | OS89H |
| OS90H | 112 | OS90H |
| OS91H | 113 | OS91H |
| OS92H | 114 | OS92H |
| OS93H | 115 | OS93H |
| OS94H | 116 | OS94H |
| OS95H | 117 | OS95H |
| OS96H | 118 | OS96H |
| OS97H | 119 | OS97H |
| OS98H | 120 | OS98H |
| OS99H | 121 | OS99H |
| OS100H | 122 | OS100H |
| OS101H | 123 | OS101H |
| OS102H | 124 | OS102H |

| | |
|------------------------------------------------------------------------------------|----------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS IN DECIMALS | |
| DO NOT SCALE THIS DRAWING | HEAT TREATMENT |
| NEXT ASSY USED ON | TIME FINISH |
| APPLICATION | |

| | | | | | | |
|-----------------|------|-------------|----|-----|------|---------|
| REVISIONS 20943 | | | | | | |
| SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVE |

| PIN NO. | SIGNAL NO. (SEE NOTE 4) | | |
|---------|-------------------------|--------|--------|
| | NAV | MAIN | LEM |
| 47 | CB235 | CB235 | CB235 |
| 48 | D-208 | D-208 | D-208 |
| 49 | D-209 | D-206 | D-206 |
| 50 | D.U. | D.U. | D.U. |
| 51 | DE201 | DE253 | DE253 |
| 52 | D.U. | D.U. | D.U. |
| 53 | WD352C | WD440C | WD440C |
| 54 | WD351C | WD439C | WD439C |
| 55 | WD3420 | WD4410 | WD4410 |
| 56 | SD328A | SD444A | SD444A |
| 57 | WD353 | WD450 | WD450 |
| 58 | WD3540 | WD4530 | WD4530 |
| 59 | WD354C | WD453C | WD453C |
| 60 | WD3420 | WD4490 | WD4490 |
| 61 | WD3380 | WD4070 | WD4070 |
| 62 | W-349 | WD446 | WD446 |
| 63 | W-350 | WD447 | WD447 |
| 64 | W-347 | WD448 | WD448 |
| 65 | W-348 | WD449 | WD449 |
| 66 | CE218 | CE218 | CE218 |
| 67 | CE223 | CE223 | CE223 |
| 68 | CE228 | CE228 | CE228 |
| 69 | CB233 | CB233 | CB233 |
| 70 | CB238 | CB238 | CB238 |
| 71 | CB258 | CB258 | CB258 |
| 72 | CB244 | CB244 | CB244 |
| 73 | W-241 | W-241 | W-241 |
| 74 | W-213 | W-213 | W-213 |
| 75 | W-210 | W-210 | W-210 |
| 76 | DE204 | DE256 | DE256 |
| 77 | DE203 | DE255 | DE255 |
| 78 | DE202 | DE254 | DE254 |
| 79 | DE205 | DE257 | DE257 |
| 80 | WD3240 | WD4520 | WD4520 |
| 81 | SD324A | SD452A | SD452A |
| 82 | WD324C | WD452C | WD452C |
| 83 | SD351A | SD439A | SD439A |
| 84 | SD342A | SD441A | SD441A |
| 85 | WD340C | WD409C | WD409C |



SEE NOTE 3

REFERENCES

1. AGC DSKY ASSY 2003985

| | | | | | | | | | |
|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--------------------------------------------|--------------------------------|------|------------|------------|
| | | CITY #1020 | | PART OR IDENTIFYING NO. | MATERIAL OR DESCRIPTION | NOMENCLATURE OR DESCRIPTION | | FIN NO. | |
| | | LIST OF MATERIALS | | | | | | | |
| | | M I T INSTRUMENTATION LAB CAMBRIDGE, MASS. | | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | | | | |
| | | DRAWN <i>J. P. DeLeonard</i> <i>22-2</i> | | | SIGNAL PIN ASSIGNMENT | | | | |
| | | CHECKED <i>Legg</i> <i>22-2</i> | | | 85 PIN CONNECTOR | | | | |
| | | APPROVED <i>J. P. DeLeonard</i> <i>22-2</i> | | | AGC DSKY | | | | |
| | | APPROVED <i>J. P. DeLeonard</i> <i>22-2</i> | | | | | | | |
| | | MATERIAL | | | | | | | |
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN OHMS RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING. | | | | | | | |
| | | NEXT ASSY | | | USED ON | | | | |
| | | APPROVAL | | | CODE IDENT NO | | SIZE | | DRAWING NO |
| | | APPROVED <i>W. J. ...</i> <i>22-2</i> | | | 80230 | | D | | 2005957 |
| | | APPROVED <i>W. J. ...</i> <i>22-2</i> | | | SCALE: 3/1 | | DATE | | SHEET OF |
| | | APPROVED <i>W. J. ...</i> <i>22-2</i> | | | DATE | | | | |

| REF ID | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|--------|-------------|-------------|-------|-----|--------|
| R1 | 1006750-1 | RESISTOR | NOM | 2% | 1/4W |
| R2 | 1006750-2 | | NOM | 2% | 1/4W |
| R3 | -24 | | 470 | | |
| R4 | -39 | | 2000 | | |
| R5 | -39 | | 2000 | | |
| R6 | -141 | | 115K | | |
| R7 | -24 | | 470 | | |
| R8 | -39 | | 1000 | | |
| R9 | -25 | | 10 | | |
| R10 | 1006750-43 | | 3 100 | 2% | 1/4W |
| R11 | 1006750-10 | | 3 | 1% | 1W |
| R12 | 1006750-24 | | 5 10 | 2% | 1/4W |
| R13 | -3E | | 100 | | |
| R14 | -31 | | 11 | | |
| R15 | -64 | | 12K | | |
| R16 | -34 | | 8 200 | | |
| R17 | -3 | | 100 | | |
| R18 | -16 | | 47K | | |
| R19 | -65 | | 10 | | |
| R20 | -15 | | 24 | | |
| R21 | -24 | | 470 | | |
| R22 | -43 | | 300 | | |
| R23 | -32 | | 100K | | |
| R24 | 1006750-10 | | 300 | | |
| R25 | -24 | | 470 | | |
| R26 | -15 | | 11 | | |
| R27 | -15 | | 15 | | |
| R28 | -25 | | 200 | | |
| R29 | -14 | | 200 | | |
| R30 | 1006750-15 | | 200 | 2% | 1/2W |
| R31 | 1006760-22 | | 390 | 2% | 1/2W |
| R32 | 1006750-24 | | 470 | 2% | 1/2W |
| R33 | 1006750-10 | | 51 | 1% | 1/4W |
| R34 | 103085-51 | | 620 | 1% | 3W |
| R35 | 100389-113 | | 3 | 1% | 3W |
| R36 | 1006750-113 | | 300 | 2% | 1/4W |
| R37 | 1006330-001 | | 0.12 | 1% | 10W |
| R38 | 1006330-001 | | 0.12 | 1% | 10W |
| R39 | 1006330-001 | | 0.12 | 1% | 10W |
| R40 | 1006750-33 | | 3000 | 2% | 1/4W |
| R41 | 100389-23 | | 43 | 1% | 3W |
| R42 | 1006750-15 | | 200 | 2% | 1/4W |
| R43 | 1006750-20 | | 24K | 2% | 1/4W |
| R44 | 1006750-28 | | 680 | 2% | 1/4W |
| R45 | 1006750-39 | | 2000 | 2% | 1/4W |
| R46 | 1006750-35 | | 1000 | 2% | 1/4W |
| R47 | 1006750-36 | | 10K | 2% | 1/4W |
| R48 | 1006788-4 | | 50 | 1% | 1/4W |
| R49 | 1006750-30 | | 1000 | 2% | 1/4W |
| R50 | 1006750-15 | RESISTOR | 200 | 2% | 1/4W |

SELECTION CHART FOR R1 & R2

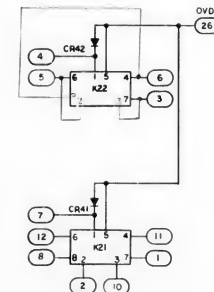
| PART NO. | VALUE |
|-------------|-------|
| 1006750 -1 | 51 |
| -2 | 56 |
| -3 | 62 |
| -4 | 68 |
| -5 | 75 |
| -6 | 82 |
| -7 | 91 |
| -8 | 100 |
| -9 | 110 |
| -10 | 120 |
| -11 | 130 |
| -12 | 150 |
| -13 | 160 |
| -14 | 180 |
| -15 | 200 |
| -16 | 220 |
| -17 | 240 |
| -18 | 270 |
| -19 | 300 |
| -20 | 330 |
| -21 | 360 |
| -22 | 390 |
| -23 | 430 |
| -24 | 470 |
| 1006750 -25 | 510 |

| REF DES | PART NO. | DESCRIPTION | VALUE | TOL | RATING |
|---------|-------------|----------------|---------|-----|--------|
| C1 | 1006755-79 | CAPACITOR | 6.8UF | 10% | 35V |
| C2 | 1006755-14 | | 100UF | 10% | 10V |
| C3 | 1006755-57 | | 0.00UF | | 35V |
| C4 | 1006755-79 | | 6.8UF | | 35V |
| C5 | 1006777-31 | | 0.01UF | ↓ | 150V |
| C6 | 1006777-28 | | 0.047UF | 10% | 100V |
| C7 | 1006793-30 | | 10068UF | 2% | 500V |
| C8 | 1006755-134 | | 21UF | 10% | 50V |
| C9 | -134 | | | | |
| C10 | -134 | | | | |
| C11 | -134 | | | | |
| C12 | -134 | | 22UF | | 50V |
| C13 | -89 | | 47UF | | 35V |
| C14 | -89 | | | | |
| C15 | -89 | | | | |
| C16 | -89 | | | | |
| C17 | -89 | | | | |
| C18 | -89 | | 47UF | | 35V |
| C19 | -134 | | 22UF | | 50V |
| C20 | -134 | | 22UF | | 50V |
| C21 | -134 | | 22UF | | 50V |
| C22 | -134 | | 2.2UF | | 50V |
| C23 | -134 | | 47UF | | 35V |
| C24 | 1006755-79 | CAPACITOR | 6.8UF | 10% | 35V |
| C25 | 1006755-14 | CAPACITOR | 100UF | 10% | 10V |
| Q1 | 1000376-3 | TRANSISTOR | | | |
| Q2 | 2004184-002 | | | | |
| Q3 | 2004184-002 | | | | |
| Q4 | 2004004-004 | | | | |
| Q5 | 2004184-002 | | | | |
| Q6 | 2004184-002 | | | | |
| Q7 | 2004004-004 | | | | |
| Q8 | 2004184-002 | | | | |
| Q9 | | | | | |
| Q10 | 2004722 | SELECTION LIST | | | |
| Q11 | | | | | |
| Q12 | 1006317-002 | TRANSISTOR | | | |
| Q13 | 2004184-001 | | | | |
| Q14 | 1006363-001 | | | | |
| Q15 | 2004184-001 | | | | |
| Q16 | 2004184-001 | TRANSISTOR | | | |
| Q17 | 2004184-001 | TRANSISTOR | | | |
| K1 | 1006304-002 | RELAY | | | |
| L1 | 1006328 | INDUCTOR | 80UH | | |
| L2 | 1006327 | INDUCTOR | 25UH | | |
| L3 | 1006327 | INDUCTOR | 25UH | | |
| L4 | 1006327 | INDUCTOR | 25UH | | |
| CR1 | 2004112-002 | DIODE | | | |
| CR2 | 2004183-001 | | | | |
| CR3 | 2004183-001 | | | | |
| CR4 | 2004183-001 | | | | |
| CR5 | 2004183-001 | | | | |
| CR6 | 2004183-001 | | | | |
| CR7 | 2004112-001 | | | | |
| CR8 | 2004183-001 | | | | |
| CR9 | 2004183-001 | | | | |
| CR10 | 1005329 | DIODE | | | |
| CR11 | | | | | |
| CR12 | | | | | |
| CR13 | | | | | |
| CR14 | 2004183-001 | DIODE | | | |

[illegible]

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| ITEM NO. | | SYMBOL | PART OR IDENT NO. | DESCRIPTION | |
| LIST OF MATERIALS | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. CORRELATION VALUES ARE IN P. P. 1 P. 2 P. 3 P. 4 P. 5 P. 6 P. 7 P. 8 P. 9 P. 10 P. 11 P. 12 P. 13 P. 14 P. 15 P. 16 P. 17 P. 18 P. 19 P. 20 P. 21 P. 22 P. 23 P. 24 P. 25 P. 26 P. 27 P. 28 P. 29 P. 30 P. 31 P. 32 P. 33 P. 34 P. 35 P. 36 P. 37 P. 38 P. 39 P. 40 P. 41 P. 42 P. 43 P. 44 P. 45 P. 46 P. 47 P. 48 P. 49 P. 50 P. 51 P. 52 P. 53 P. 54 P. 55 P. 56 P. 57 P. 58 P. 59 P. 60 P. 61 P. 62 P. 63 P. 64 P. 65 P. 66 P. 67 P. 68 P. 69 P. 70 P. 71 P. 72 P. 73 P. 74 P. 75 P. 76 P. 77 P. 78 P. 79 P. 80 P. 81 P. 82 P. 83 P. 84 P. 85 P. 86 P. 87 P. 88 P. 89 P. 90 P. 91 P. 92 P. 93 P. 94 P. 95 P. 96 P. 97 P. 98 P. 99 P. 100 P. 101 P. 102 P. 103 P. 104 P. 105 P. 106 P. 107 P. 108 P. 109 P. 110 P. 111 P. 112 P. 113 P. 114 P. 115 P. 116 P. 117 P. 118 P. 119 P. 120 P. 121 P. 122 P. 123 P. 124 P. 125 P. 126 P. 127 P. 128 P. 129 P. 130 P. 131 P. 132 P. 133 P. 134 P. 135 P. 136 P. 137 P. 138 P. 139 P. 140 P. 141 P. 142 P. 143 P. 144 P. 145 P. 146 P. 147 P. 148 P. 149 P. 150 P. 151 P. 152 P. 153 P. 154 P. 155 P. 156 P. 157 P. 158 P. 159 P. 160 P. 161 P. 162 P. 163 P. 164 P. 165 P. 166 P. 167 P. 168 P. 169 P. 170 P. 171 P. 172 P. 173 P. 174 P. 175 P. 176 P. 177 P. 178 P. 179 P. 180 P. 181 P. 182 P. 183 P. 184 P. 185 P. 186 P. 187 P. 188 P. 189 P. 190 P. 191 P. 192 P. 193 P. 194 P. 195 P. 196 P. 197 P. 198 P. 199 P. 200 P. 201 P. 202 P. 203 P. 204 P. 205 P. 206 P. 207 P. 208 P. 209 P. 210 P. 211 P. 212 P. 213 P. 214 P. 215 P. 216 P. 217 P. 218 P. 219 P. 220 P. 221 P. 222 P. 223 P. 224 P. 225 P. 226 P. 227 P. 228 P. 229 P. 230 P. 231 P. 232 P. 233 P. 234 P. 235 P. 236 P. 237 P. 238 P. 239 P. 240 P. 241 P. 242 P. 243 P. 244 P. 245 P. 246 P. 247 P. 248 P. 249 P. 250 P. 251 P. 252 P. 253 P. 254 P. 255 P. 256 P. 257 P. 258 P. 259 P. 260 P. 261 P. 262 P. 263 P. 264 P. 265 P. 266 P. 267 P. 268 P. 269 P. 270 P. 271 P. 272 P. 273 P. 274 P. 275 P. 276 P. 277 P. 278 P. 279 P. 280 P. 281 P. 282 P. 283 P. 284 P. 285 P. 286 P. 287 P. 288 P. 289 P. 290 P. 291 P. 292 P. 293 P. 294 P. 295 P. 296 P. 297 P. 298 P. 299 P. 300 P. 301 P. 302 P. 303 P. 304 P. 305 P. 306 P. 307 P. 308 P. 309 P. 310 P. 311 P. 312 P. 313 P. 314 P. 315 P. 316 P. 317 P. 318 P. 319 P. 320 P. 321 P. 322 P. 323 P. 324 P. 325 P. 326 P. 327 P. 328 P. 329 P. 330 P. 331 P. 332 P. 333 P. 334 P. 335 P. 336 P. 337 P. 338 P. 339 P. 340 P. 341 P. 342 P. 343 P. 344 P. 345 P. 346 P. 347 P. 348 P. 349 P. 350 P. 351 P. 352 P. 353 P. 354 P. 355 P. 356 P. 357 P. 358 P. 359 P. 360 P. 361 P. 362 P. 363 P. 364 P. 365 P. 366 P. 367 P. 368 P. 369 P. 370 P. 371 P. 372 P. 373 P. 374 P. 375 P. 376 P. 377 P. 378 P. 379 P. 380 P. 381 P. 382 P. 383 P. 384 P. 385 P. 386 P. 387 P. 388 P. 389 P. 390 P. 391 P. 392 P. 393 P. 394 P. 395 P. 396 P. 397 P. 398 P. 399 P. 400 P. 401 P. 402 P. 403 P. 404 P. 405 P. 406 P. 407 P. 408 P. 409 P. 410 P. 411 P. 412 P. 413 P. 414 P. 415 P. 416 P. 417 P. 418 P. 419 P. 420 P. 421 P. 422 P. 423 P. 424 P. 425 P. 426 P. 427 P. 428 P. 429 P. 430 P. 431 P. 432 P. 433 P. 434 P. 435 P. 436 P. 437 P. 438 P. 439 P. 440 P. 441 P. 442 P. 443 P. 444 P. 445 P. 446 P. 447 P. 448 P. 449 P. 450 P. 451 P. 452 P. 453 P. 454 P. 455 P. 456 P. 457 P. 458 P. 459 P. 460 P. 461 P. 462 P. 463 P. 464 P. 465 P. 466 P. 467 P. 468 P. 469 P. 470 P. 471 P. 472 P. 473 P. 474 P. 475 P. 476 P. 477 P. 478 P. 479 P. 480 P. 481 P. 482 P. 483 P. 484 P. 485 P. 486 P. 487 P. 488 P. 489 P. 490 P. 491 P. 492 P. 493 P. 494 P. 495 P. 496 P. 497 P. 498 P. 499 P. 500 P. 501 P. 502 P. 503 P. 504 P. 505 P. 506 P. 507 P. 508 P. 509 P. 510 P. 511 P. 512 | | MATERIAL | | INSTRUMENTATION LAB | MARKED SPACE |
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REFRET DRAWING IN ACCORDANCE WITH STANDARDS
 DESCRIBED BY MIL-D-70327
 TIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX
 GNATIONS WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
 AY TO BE EITHER 200468B-1 OR 200468B-2



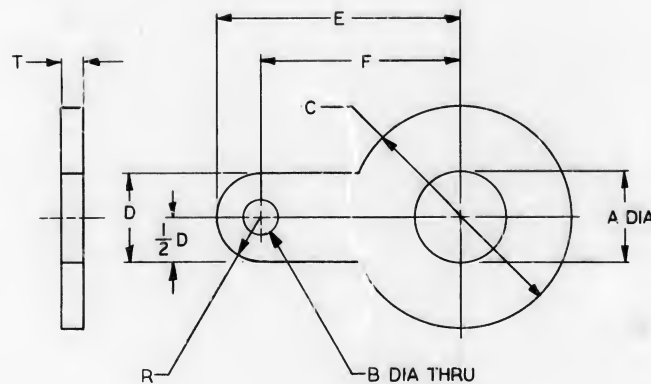
CKT FOR LATCHING RELAY KI-K5, K6-K10, K11-K15, @ K16-K20 TO SWITCH AND LATCH FROM POSITION SHOWN, APPLY PLUS VOLTAGE ON PIN 10

[illegible]

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORWARDED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

2008013

| REVISIONS | | | |
|-----------|------------------------|-------|----------------|
| SYM | DESCRIPTION | DATE | APPROVAL |
| A | REVISED PER YDHR 23598 | 13089 | 5/16/65 RPK WR |



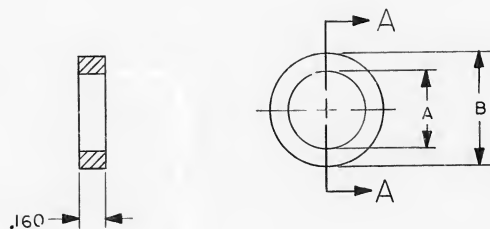
| PART NO. | A | B | C | D | E | F | T |
|-----------|------|------|------|-----|-----|-----|-----|
| 2008013-1 | .257 | .093 | .625 | .25 | .69 | .56 | .03 |
| 2008013-2 | .323 | .125 | .625 | .25 | .69 | .56 | .03 |
| 2008013-3 | .196 | .093 | .438 | .16 | .62 | .50 | .03 |
| 2008013-4 | .196 | .093 | .562 | .16 | .62 | .50 | .06 |
| 2008013-5 | .196 | .093 | .575 | .16 | .62 | .50 | .03 |

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: COPPER, QQ-C-576 SOFT-ANNEALED
3. FINISH: GOLD PLATE PER MIL-G-45204 TYPE II 200 μ INCHES MIN
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .005/.015
5. IDENTIFY PER ND 1002019

| | | | |
|-------------------------------------------------|-------------------------|--------------------------------------------|---------------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN BY: <i>E. Krahm</i> DATE: <i>3 DEC 69</i> | | TERMINAL-LUG SOLDER-FLAT | |
| CHECKED BY: <i>W. J. R. [signature]</i> | | | |
| APPROVAL: <i>A. R. [signature]</i> | | | |
| HEAT TREATMENT | | NASA APPROVAL: <i>W. J. R. [signature]</i> | CODE IDENT NO. SIZE |
| NEXT ASSY USED ON | | MIT APPROVAL: <i>W. J. R. [signature]</i> | C 2008013 |
| APPLICATION | | SCALE: NONE | WT SHEET OF 1 |

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY, NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVERTING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



SECTION A-A

| PART NO. | A DIM. | B DIM. |
|-----------|--------|--------|
| 2008020-1 | .203 | .312 |
| 2008020-2 | .265 | .375 |

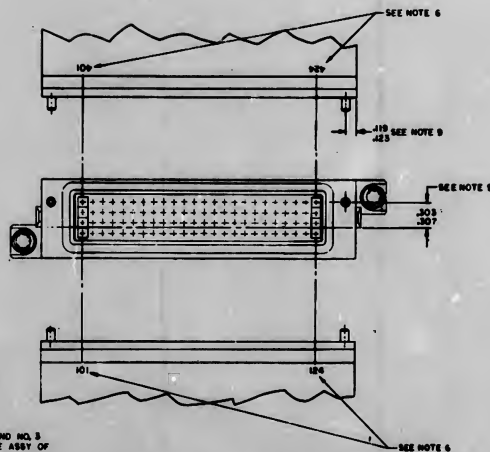
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: CERAMIC PER MIL-I-10 GRADE L624
3. 125/ ALL OVER
4. BREAK SHARP EDGES .010 R MAX
5. IDENTIFY PER ND1002019

| | | | |
|------------------------------------------------|-------------------------|--------------------------------------------|-----------------------------|
| QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
| LIST OF MATERIALS | | | |
| MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN <i>R.D. Jones</i> DATE <i>8 APR 64</i> | | BUSHING, INSULATOR | |
| CHECKED <i>R.D. Jones</i> DATE <i>9 APR 64</i> | | | |
| APPROVAL <i>D.B. Test</i> 1/12/65 | | | |
| MATERIAL SEE NOTE 2 | | NASA APPROVAL <i>W.J. Rhine</i> -13-65 | CODE IDENT NO. <i>C</i> |
| HEAT TREATMENT | | MIT APPROVAL <i>W.J. Rhine</i> 1/12/65 | NASA DRAWING NO. 2008020 |
| FINAL FINISH | | SCALE <i>1/1</i> | WT |
| NEXT ASSY | USED ON | SHEET 1 OF 1 | |
| APPLICATION | | | |

| PART NO. | MODULE NO. | FIND NO. 1 | FIND NO. 2 | MODULE DECK NO. | NEXT ASSEMBLY NO. (REF) | PROCUREMENT SPECIFICATION |
|-------------|------------|-------------|-------------|-----------------|-------------------------|---------------------------|
| 2010801-01 | B-1 | 2010804-021 | 2010803-011 | 0321 | 2021113-071 | P52016042 |
| 2010801-02 | B-1 | 031 | 021 | 0322 | | |
| 2010801-03 | B-1 | 031 | 021 | 0323 | | |
| 2010801-04 | B-1 | 051 | 041 | 0324 | | |
| 2010801-05 | B-1 | 061 | 031 | 0325 | | |
| 2010801-06 | B-1 | 2010804-071 | 2010803-041 | 0326 | 2021113-071 | P52016042 |
| 2010801-07 | B-1 | 081 | 071 | 0327 | 2021113-081 | P52016042 |
| 2010801-08 | B-1 | 091 | 081 | 0328 | | |
| 2010801-09 | B-1 | 111 | 091 | 0329 | | |
| 2010801-10 | B-1 | 121 | 111 | 0330 | | |
| 2010801-11 | B-1 | 131 | 121 | 0331 | | |
| 2010801-12 | B-1 | 2010804-141 | 2010803-131 | 0332 | 2021113-081 | P52016042 |
| 2010801-13 | B-1 | 151 | 141 | 0333 | 2021113-091 | P52016042 |
| 2010801-14 | B-1 | 2010804-161 | 2010803-151 | 0334 | 2021113-081 | P52016042 |
| 2010801-15 | B-1 | 171 | 161 | 0335 | 2021113-111 | P52016042 |
| 2010801-16 | B-1 | 2010804-181 | 2010803-171 | 0336 | 2021113-121 | P52016042 |
| 2010801-17 | B-1 | 191 | 181 | 0337 | 2021113-091 | P52016042 |
| 2010801-18 | B-1 | 201 | 191 | 0338 | | |
| 2010801-19 | B-1 | 211 | 201 | 0339 | | |
| 2010801-20 | B-1 | 221 | 211 | 0340 | | |
| 2010801-21 | B-1 | 231 | 221 | 0341 | | |
| 2010801-22 | B-1 | 241 | 231 | 0342 | | |
| 2010801-23 | B-1 | 251 | 241 | 0343 | | |
| 2010801-24 | B-1 | 261 | 251 | 0344 | | |
| 2010801-25 | B-1 | 271 | 261 | 0345 | | |
| 2010801-26 | B-1 | 281 | 271 | 0346 | | |
| 2010801-27 | B-1 | 291 | 281 | 0347 | | |
| 2010801-28 | B-1 | 301 | 291 | 0348 | | |
| 2010801-29 | B-1 | 311 | 301 | 0349 | | |
| 2010801-30 | B-1 | 321 | 311 | 0350 | | |
| 2010801-31 | B-1 | 331 | 321 | 0351 | | |
| 2010801-32 | B-1 | 341 | 331 | 0352 | | |
| 2010801-33 | B-1 | 351 | 341 | 0353 | | |
| 2010801-34 | B-1 | 361 | 351 | 0354 | | |
| 2010801-35 | B-1 | 371 | 361 | 0355 | | |
| 2010801-36 | B-1 | 381 | 371 | 0356 | | |
| 2010801-37 | B-1 | 391 | 381 | 0357 | | |
| 2010801-38 | B-1 | 401 | 391 | 0358 | | |
| 2010801-39 | B-1 | 411 | 401 | 0359 | | |
| 2010801-40 | B-1 | 421 | 411 | 0360 | | |
| 2010801-41 | B-1 | 431 | 421 | 0361 | | |
| 2010801-42 | B-1 | 441 | 431 | 0362 | | |
| 2010801-43 | B-1 | 451 | 441 | 0363 | | |
| 2010801-44 | B-1 | 461 | 451 | 0364 | | |
| 2010801-45 | B-1 | 471 | 461 | 0365 | | |
| 2010801-46 | B-1 | 481 | 471 | 0366 | | |
| 2010801-47 | B-1 | 491 | 481 | 0367 | | |
| 2010801-48 | B-1 | 501 | 491 | 0368 | | |
| 2010801-49 | B-1 | 511 | 501 | 0369 | | |
| 2010801-50 | B-1 | 521 | 511 | 0370 | | |
| 2010801-51 | B-1 | 531 | 521 | 0371 | | |
| 2010801-52 | B-1 | 541 | 531 | 0372 | | |
| 2010801-53 | B-1 | 551 | 541 | 0373 | | |
| 2010801-54 | B-1 | 561 | 551 | 0374 | | |
| 2010801-55 | B-1 | 571 | 561 | 0375 | | |
| 2010801-56 | B-1 | 581 | 571 | 0376 | | |
| 2010801-57 | B-1 | 591 | 581 | 0377 | | |
| 2010801-58 | B-1 | 601 | 591 | 0378 | | |
| 2010801-59 | B-1 | 611 | 601 | 0379 | | |
| 2010801-60 | B-1 | 621 | 611 | 0380 | | |
| 2010801-61 | B-1 | 631 | 621 | 0381 | | |
| 2010801-62 | B-1 | 641 | 631 | 0382 | | |
| 2010801-63 | B-1 | 651 | 641 | 0383 | | |
| 2010801-64 | B-1 | 661 | 651 | 0384 | | |
| 2010801-65 | B-1 | 671 | 661 | 0385 | | |
| 2010801-66 | B-1 | 681 | 671 | 0386 | | |
| 2010801-67 | B-1 | 691 | 681 | 0387 | | |
| 2010801-68 | B-1 | 701 | 691 | 0388 | | |
| 2010801-69 | B-1 | 711 | 701 | 0389 | | |
| 2010801-70 | B-1 | 721 | 711 | 0390 | | |
| 2010801-71 | B-1 | 731 | 721 | 0391 | | |
| 2010801-72 | B-1 | 741 | 731 | 0392 | | |
| 2010801-73 | B-1 | 751 | 741 | 0393 | | |
| 2010801-74 | B-1 | 761 | 751 | 0394 | | |
| 2010801-75 | B-1 | 771 | 761 | 0395 | | |
| 2010801-76 | B-1 | 781 | 771 | 0396 | | |
| 2010801-77 | B-1 | 791 | 781 | 0397 | | |
| 2010801-78 | B-1 | 801 | 791 | 0398 | | |
| 2010801-79 | B-1 | 811 | 801 | 0399 | | |
| 2010801-80 | B-1 | 821 | 811 | 0400 | | |
| 2010801-81 | B-1 | 831 | 821 | 0401 | | |
| 2010801-82 | B-1 | 841 | 831 | 0402 | | |
| 2010801-83 | B-1 | 851 | 841 | 0403 | | |
| 2010801-84 | B-1 | 861 | 851 | 0404 | | |
| 2010801-85 | B-1 | 871 | 861 | 0405 | | |
| 2010801-86 | B-1 | 881 | 871 | 0406 | | |
| 2010801-87 | B-1 | 891 | 881 | 0407 | | |
| 2010801-88 | B-1 | 901 | 891 | 0408 | | |
| 2010801-89 | B-1 | 911 | 901 | 0409 | | |
| 2010801-90 | B-1 | 921 | 911 | 0410 | | |
| 2010801-91 | B-1 | 931 | 921 | 0411 | | |
| 2010801-92 | B-1 | 941 | 931 | 0412 | | |
| 2010801-93 | B-1 | 951 | 941 | 0413 | | |
| 2010801-94 | B-1 | 961 | 951 | 0414 | | |
| 2010801-95 | B-1 | 971 | 961 | 0415 | | |
| 2010801-96 | B-1 | 981 | 971 | 0416 | | |
| 2010801-97 | B-1 | 991 | 981 | 0417 | | |
| 2010801-98 | B-1 | 1001 | 991 | 0418 | | |
| 2010801-99 | B-1 | 1011 | 1001 | 0419 | | |
| 2010801-100 | B-1 | 1021 | 1011 | 0420 | | |

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002048
 - ENCAPSULATE MODULE PER ND1002226 METHOD II
 - WELD PER ND1002005
 - WORK APPROPRIATE MODULE NO. AS SHOWN IN CHART
 - MARK DR 106 HIGH PER ND1002009 AND ND1002222 TYPE II CLASS 2 AND SERIALIZE PER ND 1002023 USING INK 1002274
 - MARK J48 J49 HIGH PER ND1002009 AND ND1002222 TYPE II CLASS 2 USING INK 1002274
 - UNIT INDICATED DATE OF FIND NO. 7 PER ND1002278 WITH SEC NO. 000809-1
 - DARK GREY EPOXY RESIN ENAMEL FINAL COAT PER ND1002277 USING 1012563-003
 - ASSEMBLE FIND NO. 7 AND FIND NO. 3 TO DIMENSIONS SHOWN
 - REMOVE WIRE FROM NEAR SIDE OF FIND NO. 36 AND ASSEMBLE 3 PLACES AS SHOWN
 - FIND NO. 36 MUST INSULATE FLAT CABLES FROM TRIMMED COMPONENT LEADS. TINS AS REQUIRED
 - WHITE DOT AND SINGLE SOLID LEAD DENOTES FIRST LEVEL WIRING UNLESS OTHERWISE SPECIFIED
 - BLACK DOT AND SINGLE SOLID LEAD DENOTES SECOND LEVEL WIRING
 - BLACK DOT AND CROSS HATCHED LEAD DENOTES THIRD LEVEL WIRING
 - ALL LEADS FROM FIND NO. 1 AND FIND NO. 2 TO FIND NO. 3 TO BE THIRD LEVEL WIRING
 - COMPLETE ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PROCUREMENT SPECIFICATION AS LISTED IN CHART
 - FIND NO. 10 TO BE SHIPPED UNASSEMBLED AND IDENTIFIED PER ND 1002009
 - SEAL PINS AND INSULATORS TO FIND NO. 3 PER ND1002004 TYPE XX BEFORE ASSY OF FIND NO. 6
 - FILL AS SHOWN PER ND1002223 METHOD A
 - COND FIND NO. 30 TO FIND NO. 3 PER ND1002004 TYPE XX AFTER ASSY OF FIND NO. 6
 - PRIOR TO ENCAPSULATION PER NOTE 3, COAT OVER ALL TERMINALS OF FIND NO. 2, 3 AND OVER ALL WIRING SLEEVING AND COMPONENT LEADS OF FIND NO. 3 AND FIND NO. 2, 3, 4, 5, 6, 7, 8, 9, 10 WITH A 20 MAXIMUM THICKNESS OF SILICONE RUBBER PER ND1002007, METHOD A. MAKE ALL OUTSIDE SURFACES OF FIND NO. 3 AND ALL OTHER SURFACES OF THIS ASSEMBLY COMING IN CLOSE CONTACT WITH FIND NO. 7



- REFERENCES:
- PROCESS REQUIREMENTS FOR CONTROL AND INSPECTION OF ROPE MEMORY ASSEMBLIES ND1002285
 - FIXED MEMORY FIXTURE DWG NO. AP22500

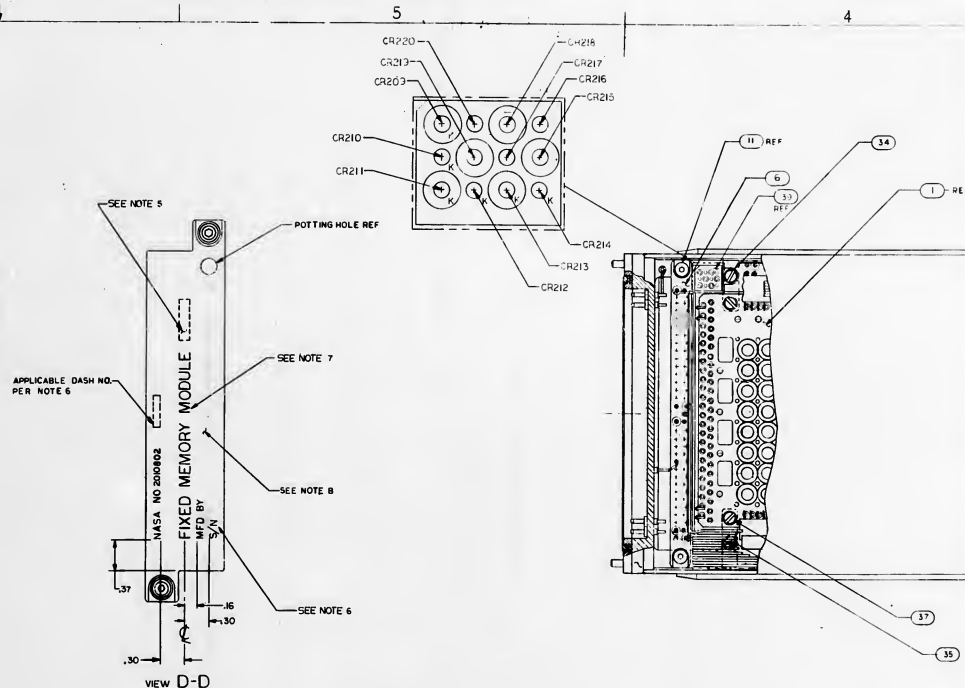
2010802

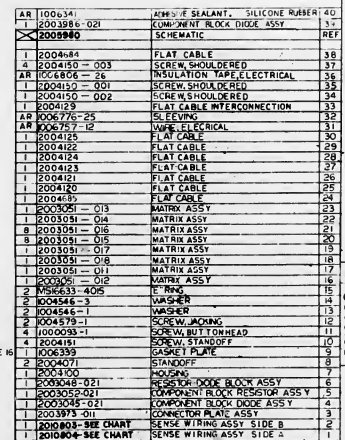
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| PART NO. | MODULE NO. | FIND NO. 1 | FIND NO. 2 | MODULE DECK NO. | NEXT ASSEMBLY NO. (REF.) | PROCUREMENT SPECIFICATION SEE NOTE 15 |
|------------|------------|------------|------------|-----------------|--------------------------|---------------------------------------|
| 2010801-01 | A | 021 | 2010803-01 | 0321 | 2021113-071 | P52016036 |
| 2010801-02 | A | 031 | 2010803-02 | 0322 | | |
| 2010801-03 | A | 041 | 2010803-03 | 0323 | | |
| 2010801-04 | A | 051 | 2010803-04 | 0324 | | |
| 2010801-05 | A | 061 | 2010803-05 | 0325 | | |
| 2010801-06 | A | 071 | 2010803-06 | 0326 | 2021113-071 | P52016036 |
| 2010801-07 | A | 08 | 2010803-07 | 0327 | 2021112-081 | P52016042 |
| 2010801-08 | A | 09 | 2010803-08 | 0328 | | |
| 2010801-09 | A | 10 | 2010803-09 | 0329 | | |
| 2010801-10 | A | 11 | 2010803-10 | 0330 | | |
| 2010801-11 | A | 12 | 2010803-11 | 0331 | | |
| 2010801-12 | A | 13 | 2010803-12 | 0332 | 2021112-081 | P52016042 |
| 2010801-13 | A | 14 | 2010803-13 | 0333 | 2021112-091 | P52016042 |
| 2010801-14 | A | 15 | 2010803-14 | 0334 | 2021113-081 | P52016042 |
| 2010801-15 | A | 16 | 2010803-15 | 0335 | 2021112-111 | P52016042 |
| 2010801-16 | A | 17 | 2010803-16 | 0336 | 2021112-121 | P52016042 |
| 2010801-17 | A | 18 | 2010803-17 | 0337 | 2021113-091 | P52016042 |
| 2010801-18 | A | 19 | 2010803-18 | 0338 | | |
| 2010801-19 | A | 20 | 2010803-19 | 0339 | | |
| 2010801-20 | A | 21 | 2010803-20 | 0340 | | |
| 2010801-21 | A | 22 | 2010803-21 | 0341 | | |
| 2010801-22 | A | 23 | 2010803-22 | 0342 | 2021113-031 | P52016042 |
| 2010801-23 | A | 24 | 2010803-23 | 0343 | 2021112-141 | P52016042 |
| 2010801-24 | A | 25 | 2010803-24 | 0344 | | |
| 2010801-25 | A | 26 | 2010803-25 | 0345 | | |
| 2010801-26 | A | 27 | 2010803-26 | 0346 | | |
| 2010801-27 | A | 28 | 2010803-27 | 0347 | | |
| 2010801-28 | A | 29 | 2010803-28 | 0348 | 2021112-141 | P52016042 |
| 2010801-29 | A | 30 | 2010803-29 | 0349 | 2021112-151 | P52016042 |
| 2010801-30 | A | 31 | 2010803-30 | 0350 | | |
| 2010801-31 | A | 32 | 2010803-31 | 0351 | | |
| 2010801-32 | A | 33 | 2010803-32 | 0352 | | |
| 2010801-33 | A | 34 | 2010803-33 | 0353 | | |
| 2010801-34 | A | 35 | 2010803-34 | 0354 | 2021112-161 | P52016042 |
| 2010801-35 | A | 36 | 2010803-35 | 0355 | 2021112-011 | P52016042 |
| 2010801-36 | A | 37 | 2010803-36 | 0356 | | |
| 2010801-37 | A | 38 | 2010803-37 | 0357 | | |
| 2010801-38 | A | 39 | 2010803-38 | 0358 | | |
| 2010801-39 | A | 40 | 2010803-39 | 0359 | | |
| 2010801-40 | A | 41 | 2010803-40 | 0360 | 2021114-011 | P52016042 |
| 2010801-41 | A | 42 | 2010803-41 | 0361 | 2021112-161 | P52016042 |
| 2010801-42 | A | 43 | 2010803-42 | 0362 | | |
| 2010801-43 | A | 44 | 2010803-43 | 0363 | | |
| 2010801-44 | A | 45 | 2010803-44 | 0364 | | |
| 2010801-45 | A | 46 | 2010803-45 | 0365 | | |
| 2010801-46 | A | 47 | 2010803-46 | 0366 | | |
| 2010801-47 | A | 48 | 2010803-47 | 0367 | | |
| 2010801-48 | A | 49 | 2010803-48 | 0368 | | |
| 2010801-49 | A | 50 | 2010803-49 | 0369 | | |
| 2010801-50 | A | 51 | 2010803-50 | 0370 | | |
| 2010801-51 | A | 52 | 2010803-51 | 0371 | | |
| 2010801-52 | A | 53 | 2010803-52 | 0372 | 2021115-011 | P52016042 |

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
 - ENCAPSULATE MODULE PER ND1002226 METHOD II
 - FIELD PER ND1002005
 - MARK APPROPRIATE MODULE NO. AS SHOWN IN CHART
 - MARK DB/06 HIGH PER ND1002019 AND ND100222 TYPE II CLASS 2 AND SERIALIZE PER ND1002023 USING INK1006271
 - MARK 14/10 HIGH PER ND1002019 AND ND100222 TYPE II CLASS 2 USING INK1006271
 - UNTIL INDICATED SURFACES OF FIND NO. 7 PER ND1002279 WITH SEC ND1008091
 - DARK GREY EPOXY RESIN ENAMEL FINAL COAT PER ND1002277 USING 1012543-003
 - ASSEMBLE FIND NO. 7 AND FIND NO. 3 TO DIMENSIONS SHOWN
 - REMOVE LINER FROM NEAR SIDE OF FIND NO. 36 AND ASSEMBLE 3 PLACES AS SHOWN
 - FIND NO. 36 MUST INSULATE FLAT CABLES FROM TRIMMED COMPONENT LEADS. TRIM AS REQUIRED
 - WHITE DOT AND SINGLE SOLID LEAD DENOTES FIRST LEVEL WIRING UNLESS OTHERWISE SPECIFIED
 - BLACK DOT AND SINGLE SOLID LEAD DENOTES SECOND LEVEL WIRING
 - BLACK DOT AND CROSS HATCHED LEAD DENOTES THIRD LEVEL WIRING
 - ALL LEADS FROM FIND NO. 7 AND FIND NO. 2 TO FIND NO. 3 TO BE THIRD LEVEL WIRING
 - COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PROCUREMENT SPECIFICATION AS LISTED IN CHART
 - FIND NO. 3 TO BE SHIPPED UNASSEMBLED AND IDENTIFIED PER ND1002019
 - SEAL PINS AND INSULATORS TO FIND NO. 3 PER ND1002004 TYPE III BEFORE ASSY OF FIND NO. 6
 - FILL AS SHOWN PER ND1002235 METHOD A
 - BOND FIND NO. 39 TO FIND NO. 3 PER ND1002004 TYPE III AFTER ASSY OF FIND NO. 6
 - PRIOR TO ENCAPSULATION PER NOTE 3, COAT OVER ALL TERMINALS OF FIND NOS 1, 2, 3 AND OVER ALL WIRES SLEEVING AND COMPONENT LEADS OF FIND NOS 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



[illegible]

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WIRE LIST

[illegible][illegible]

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|-------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONAL VALUES ARE IN 1/8 INCHES UNLESS OTHERWISE NOTED FRACTIONS IN DECIMALS ARE 1/16 INCHES UNLESS OTHERWISE NOTED DO NOT SCALE THIS DRAWING WITHOUT PERMISSION | | SET NO | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | TYPED NO |
| | | LIST OF MATERIALS | | | |
| | | MTT INSTRUMENTATION LAB CAMPUS CENTER | | MANNED SPACECRAFT CENTER HOUSTON TEXAS | |
| | | DRAWN BY <u>CHUCK L. GUNTER</u> CHECKED BY <u>CHUCK L. GUNTER</u> APPROVED BY <u>CHUCK L. GUNTER</u> APPROVED | | FIXED MEMORY MODULE ASSEMBLY | |
| | | APPROVED BY <u>CHUCK L. GUNTER</u> APPROVED DATE <u>10/23/62</u> | | COORDINATE NO. INDEX <u>802303 J</u> | |
| NEXT REV. USED FOR APPLICATION | | APPROVED BY <u>CHUCK L. GUNTER</u> APPROVED DATE <u>10/23/62</u> | | DRAWING NO. <u>2018082</u> | |
| | | DATE <u>10/23/62</u> | | SHEET 3 OF 3 | |

FLOOR MOUNTING

TOP VIEW

VIEW A-A
(WITH BASE REMOVED)

CONNECTOR
INTERFACE PNL
(PART OF A16)

REAR VIEW

AC INPUT ASSY
A27

FRONT VIEW
(DOOR REMOVED)

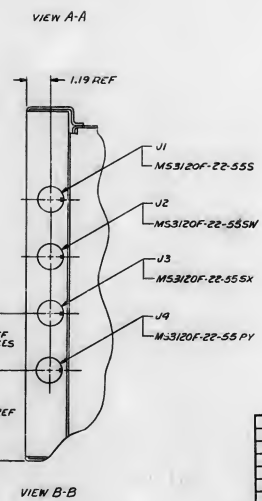
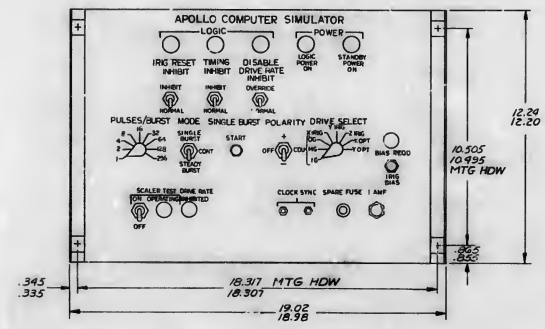
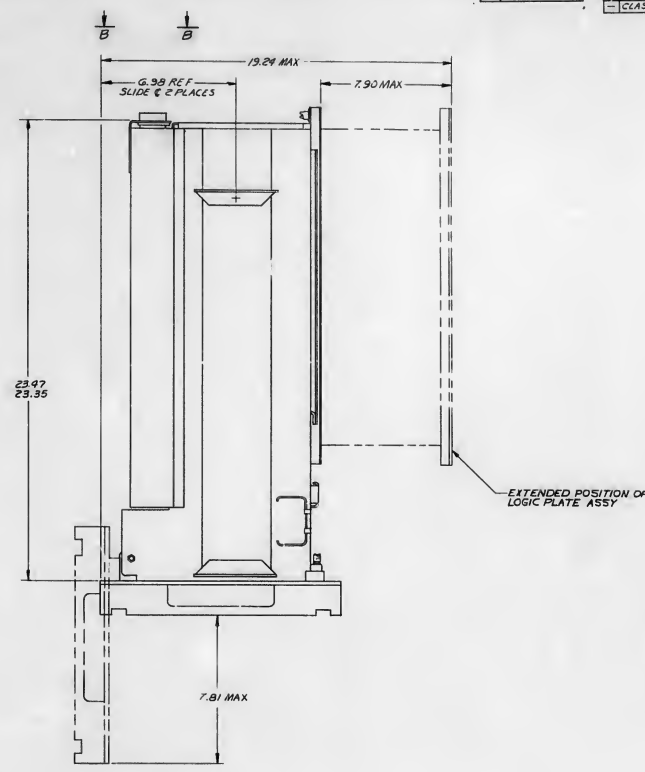
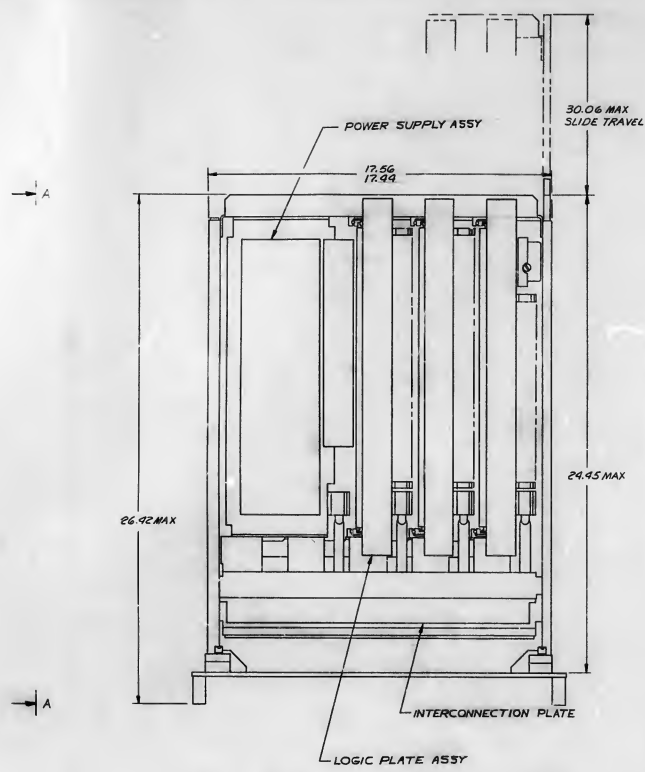
INTERCONNECTION PANEL

NOTES
1. ALL DIMENSIONS ARE REFERENCE
2. REF: BLOCK DIAGRAM-2014016

EQUIPMENT LAYOUT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

[illegible]



NOTES
1. COOLING REQUIREMENTS
A. QUANTITY OF AIR REQUIRED: 60 CFM
B. CABINET AMBIENT @ 100°F MAX
C. PRESSURE REQUIRED 0.1 INCHES OF
WATER (MIN) STATIC

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
| | | J1, J2, J3, J4, J5, J6, J7, J8, J9 | |
| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| UNLESS OTHERWISE SPECIFIED | UNLESS OTHERWISE SPECIFIED | UNLESS OTHERWISE SPECIFIED | UNLESS OTHERWISE SPECIFIED |
|------------------------------|------------------------------|------------------------------|------------------------------|
| ALL DIMENSIONS ARE IN INCHES | ALL DIMENSIONS ARE IN INCHES | ALL DIMENSIONS ARE IN INCHES | ALL DIMENSIONS ARE IN INCHES |
| TOLERANCES ON DIMENSIONS | TOLERANCES ON DIMENSIONS | TOLERANCES ON DIMENSIONS | TOLERANCES ON DIMENSIONS |
| DECIMALS | DECIMALS | DECIMALS | DECIMALS |
| ANGLES | ANGLES | ANGLES | ANGLES |
| DO NOT SCALE DRAWING | DO NOT SCALE DRAWING | DO NOT SCALE DRAWING | DO NOT SCALE DRAWING |
| MATERIAL | MATERIAL | MATERIAL | MATERIAL |
| NEXT ASSY | USED ON | APPLICATION | APPLICATION |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
| | | J1, J2, J3, J4, J5, J6, J7, J8, J9 | |
| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
| | | J1, J2, J3, J4, J5, J6, J7, J8, J9 | |
| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
| | | J1, J2, J3, J4, J5, J6, J7, J8, J9 | |
| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
| | | J1, J2, J3, J4, J5, J6, J7, J8, J9 | |
| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
| | | J1, J2, J3, J4, J5, J6, J7, J8, J9 | |
| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
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| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
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| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
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| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
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| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
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| | | POWER SUPPLY ASSY | |
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| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
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| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
| | | J1, J2, J3, J4, J5, J6, J7, J8, J9 | |
| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
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| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
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| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
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| | | APOLLO COMPUTER SIMULATOR | |
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| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
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| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
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| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
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| | | M-33120F-22-55SW | |
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| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
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| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
| | | POWER SUPPLY ASSY | |
| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
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| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
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| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
| | | LOGIC PLATE ASSY | |
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| | | CONTROL PANEL | |
| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
| | | COMPONENTS | |
| | | J1, J2, J3, J4, J5, J6, J7, J8, J9 | |
| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

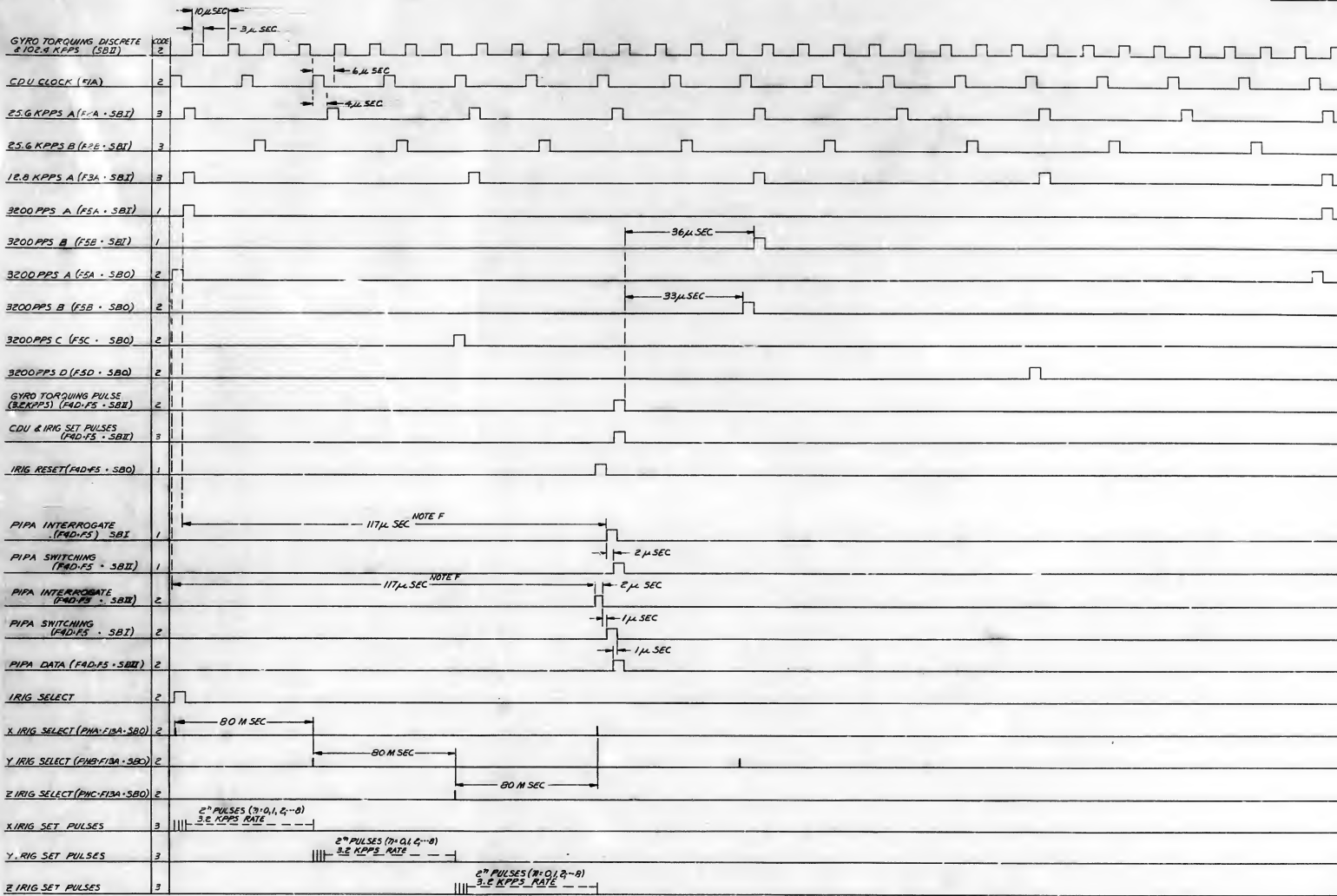
| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
|-----|-------------------------|---------------------------------------|------|
| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
| | | POWER | |
| | | INTERCONNECTION PLATE | |
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| | | SLIDE TRAVEL | |
| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
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| | | M-33120F-22-55SW | |
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| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
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| | | APOLLO COMPUTER SIMULATOR | |
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| | | M-33120F-22-55S | |
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| | | APOLLO COMPUTER SIMULATOR | |
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| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | M-33120F-22-55PY | |

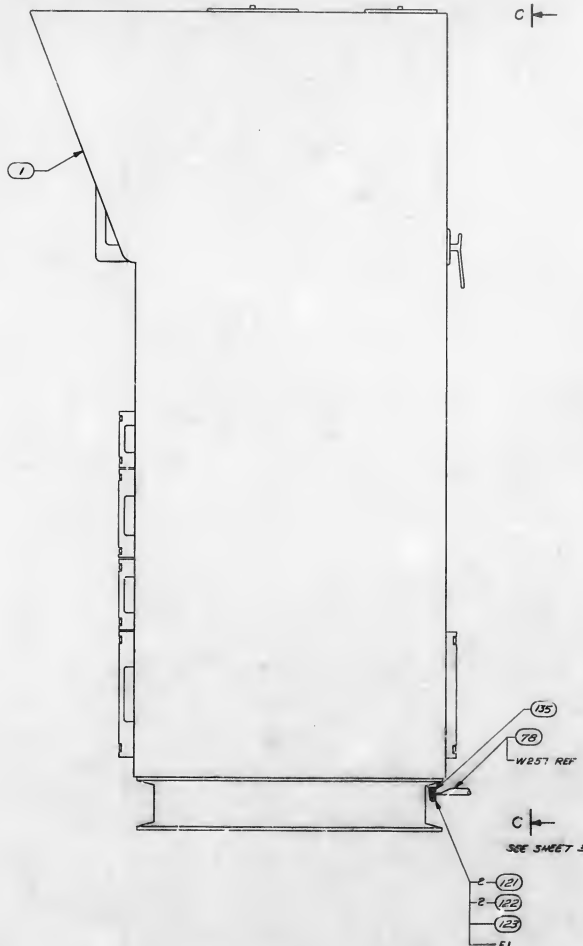
| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | UNIT |
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| | | APOLLO COMPUTER SIMULATOR | |
| | | LOGIC | |
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| | | CONTROL PANEL | |
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| | | EXTENDED POSITION OF LOGIC PLATE ASSY | |
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| | | M-33120F-22-55S | |
| | | M-33120F-22-55SW | |
| | | M-33120F-22-55SX | |
| | | | |



TIMING DIAGRAM
BLOCK I, 100, II & LEM

SIGNAL NOTES
A. ALL PULSE WIDTHS ARE 3 μSEC
B. ALL PULSES SHOWN ARE ACTUAL OUTPUTS OF SIMULATOR
C. μ. REFERS TO 10⁻⁶ SECONDS
D. CODE: 1 - BLOCK I & 100 USE ONLY
2 - BLOCK II & LEM USE ONLY
3 - BLOCK I, 100, II & LEM USE
E. M. REFERS TO 10⁻³ SECONDS
F. 117 μSEC ≈ 135° PHASE SHIFT REFERENCED TO F5

| | | | | | | | |
|----------------------------------------------------------------------------------------------|--|-------------------------|--|---------------------------------------------------------------------------------------|--|------|--|
| QTY | | PART OR IDENTIFYING NO. | | NOMENCLATURE OR DESCRIPTION | | DATE | |
| LIST OF MATERIALS | | | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DIMENSIONS DECIMALS ANGLES | | | | MANNED SPACECRAFT CENTER HOUNTON, TEXAS A GC SIMULATOR MECHANIZATION DIAGRAM | | | |
| DO NOT SCALE DRAWING | | | | 49956 J 2014021 49956 J 2014021 | | | |
| NEXT ASSEMBLY USED ON APPLICATION | | | | 49956 J 2014021 49956 J 2014021 | | | |



1. COMPLETED ASSEMBLY SHALL BE TESTED
IN ACCORDANCE WITH AND SHALL MEET ALL THE
REQUIREMENTS OF PS2008024
2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
3. BALLOON PER ND1002071
4. FABRICATE PER ND1002032 EXCEPT USE FIB 68
5. SPOT THE FIND 52 (W2) TO FIND 126 & FIND 127(W1)
3.001-.50 INCREMENTS
6. MULTI-631, TYPE F, FORM U, GRADE A, CLASS I,
CATEGORY 1 C50 OR BLACK A6W50 FOR FIND 55.A5 NO.8 FOR FIND 136
7. AR DENOTES AS REQUIRED
8. STRIP .50 & TIN PER ND1002071
9. SERIALIZE PER ND1002023
10. MISC NORMAL GOING CHARACTERS PER ND1002019 USING
BLACK INK 100671-12
11. SLIDE FIND 136 COVER SOLDERED CONNECTIONS "H FIND 65
12. CUT LEADS FROM PROBE (D06A69-002) ON FIND 5 TO REQUIRED LENGTH

| REVIEWS | | DATE | APPROVAL |
|---------|------------------------|------|----------|
| ITEM | DESCRIPTION | | |
| O | RELEASED PER CCA 2557P | | |
| A | CHANGED PER CCA 2557P | | |
| B | CHANGED PER CCA 2557P | | |
| C | CHANGED PER CCA 2557P | | |
| D | CHANGED PER CCA 2557P | | |
| E | CHANGED PER CCA 2557P | | |
| F | CHANGED PER CCA 2557P | | |
| G | CHANGED PER CCA 2557P | | |
| H | CHANGED PER CCA 2557P | | |
| I | CHANGED PER CCA 2557P | | |
| J | CHANGED PER CCA 2557P | | |
| K | CHANGED PER CCA 2557P | | |
| L | CHANGED PER CCA 2557P | | |
| M | CHANGED PER CCA 2557P | | |
| N | CHANGED PER CCA 2557P | | |
| O | CHANGED PER CCA 2557P | | |
| P | CHANGED PER CCA 2557P | | |
| Q | CHANGED PER CCA 2557P | | |
| R | CHANGED PER CCA 2557P | | |
| S | CHANGED PER CCA 2557P | | |
| T | CHANGED PER CCA 2557P | | |
| U | CHANGED PER CCA 2557P | | |
| V | CHANGED PER CCA 2557P | | |
| W | CHANGED PER CCA 2557P | | |
| X | CHANGED PER CCA 2557P | | |
| Y | CHANGED PER CCA 2557P | | |
| Z | CHANGED PER CCA 2557P | | |

| | | | |
|----|---------------|---------------------------|----|
| 1 | CP5319D-005K1 | CAPACITOR | 70 |
| 2 | MS1549D-0610 | CLAMP, CUSHIONED | 71 |
| 4 | MS1575D-001 | SCREW, MACH. PAN. HD | 70 |
| 6 | MS1570A-COG | NUT, SELF-LOCKING | 71 |
| 8 | MS1575D-005H | WASHER, FLAT | 69 |
| 9 | 100G-982-5 | WASHER, FLAT NYLON | 67 |
| 10 | MS1575D-38 | SCREW, MACH. PAN. HD | 67 |
| 11 | 1D06876 | FAN | 67 |
| 12 | MS1575D-001 | CAP. ASSY | 67 |
| 15 | MS15330-79 | CASHER, LOCK | 66 |
| 23 | MS157395-006 | WASHER, FLAT | 66 |
| 25 | MS1575D-07 | SCREW, MACH. PAN. HD | 66 |
| 26 | MS1532-8D | UNION BULKHEAD | 66 |
| 28 | MS1575D-001 | CAP. ASSY | 66 |
| 31 | 100G-400 | HOSE, DUCT | 54 |
| 31 | 201E826 | DUCT, AIR | 54 |
| 31 | 101E240 | EXHAUST CHAMBER | 54 |
| 31 | USE NOTE 6 | SCREW, MACH. PAN. HD | 54 |
| 31 | 100E477 | WIRE, ELECTRICAL WHIT | 54 |
| 31 | MS1575D-001 | CAP. ASSY WH | 54 |
| 31 | MS15957-45 | SCREW, MACH. PAN. HD | 54 |
| 43 | MS1532-80 | UNION BULKHEAD | 54 |
| 43 | MS15755-007 | WASHER, FLAT | 54 |
| 1 | 100G-982-3 | FILTER, AIR | 94 |
| 2 | AN62870-0-61 | NOSE ASSY | 94 |
| 3 | 100G665-6 | SLIDE, CHASSIS, 3 DISC. | 94 |
| 4 | MS1532-553 | SLIDE, CHASSIS, 3 DISC. | 94 |
| 4 | 100G-489-3 | DECAL, IDENTIFICATION | 94 |
| 4 | 100G-982-10 | WASHER, FLAT NYLON | 94 |
| 4 | AN1924-60 | NUT-FLARED TUBE | 94 |
| 4 | AN633-60 | ELBOW-FLARED TUBE | 94 |
| 4 | AN2870-0-19 | NOSE ASSY | 94 |
| 4 | 101E404 | DECAL, IDENTIFICATION | 94 |
| 4 | 101E408-0 | DECAL, IDENTIFICATION | 94 |
| 11 | 100G665-6 | SLIDE, CHASSIS, LOCK OPEN | 37 |
| 11 | 106-68-1 | SLIDE, CHASSIS, LOCK OPEN | 37 |
| 11 | MS1532-553 | NUT, PLAIN, HEA. | 37 |
| 11 | MS15735-000 | NUT, PLAIN, HEA. | 37 |
| 19 | MS15735-002 | WASHER, LOCK | 37 |
| 10 | MS15959-05 | SCREW, MACH. FLAT CSK HD | 32 |
| 10 | MS15959-00 | SCREW, MACH. FLAT CSK HD | 32 |
| 11 | 101E480-2 | DECAL, IDENTIFICATION | 32 |
| 14 | 101E480-45 | DECAL, IDENTIFICATION | 32 |
| 11 | 201E356 | CHASSIS ASSY, UNTR. COMET | 32 |
| 12 | MS15959-60 | SCREW, MACH. PAN. HD | 27 |
| 11 | 201E336 | BACKET, ANGLE, LH | 27 |
| 11 | 101E480-10 | DECAL, IDENTIFICATION | 27 |
| 11 | 101E480-108 | DECAL, IDENTIFICATION | 27 |
| 12 | MS15356-61 | SCREW, MACH. PAN. HD | 27 |
| 12 | MS15959-08 | SCREW, MACH. PAN. HD | 27 |
| 11 | 100G19-001 | FILTER, AIR RFI SHIELDED | 27 |
| 12 | MS15735-008 | WASHER, FLAT | 20 |
| 12 | MS15333-001 | WASHER, LOCK | 20 |
| 20 | MS15333-60 | SCREW, MACH. PAN. HD | 17 |
| 10 | 106-855 | FAN, VENTILATING | 17 |
| 11 | 101E480-7 | DECAL, IDENTIFICATION | 17 |
| 9 | AN-335-6-3 | SCREW, DRIVE | 15 |
| 11 | 101E480-2-04 | PLATE, IDENTIFICATION | 15 |
| 11 | 101E480-6-04 | PLATE, IDENTIFICATION | 15 |
| 11 | 201E336 | SPACER, RH | 12 |
| 11 | 201E339 | SPACER, LH | 12 |
| 11 | 201E302-011 | AC INPUT PANEL, ASSY | 11 |
| 11 | 201E478-011 | FRONT PANEL, ASSY | 11 |
| 11 | 201E479-011 | POWER SUPPLY, ASSY | 11 |
| 11 | 201E479-01 | POWER SUPPLY, ASSY | 11 |
| 11 | 201E481-011 | AGC JUNCTION ASSY | 7 |
| 11 | 201E457-01 | TEST MOUNT ASSY | 7 |
| 11 | 201E439-01 | TEMPERATURE MAINT. ASSY | 7 |
| 11 | 201E420-011 | POWER CONTROL ASSY | 7 |
| 11 | 201E420-01 | POWER CONTROL ASSY | 7 |
| 11 | 201E437 | CABINET, DESKTOP | 7 |

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| UNLESS OTHERWISE SPECIFIED DIMEN. ARE IN INCHES TOLERANCES ON DIMENSIONS: DECIMALS .0005 ANGLES .01 RND. RND. SCALE 1/8"=1'-0" NATURAL |  | K-CONTRACT NO. 3-57 DRAWN BY: DATE 08-29-64 CHECKED BY: DATE 08-29-64 APPROVED BY: DATE 08-29-64 APPROVED BY: DATE 08-29-64 | MAYNED SPACECRAFT CENTER HOUSTON, TEXAS |
| | | MASS APPROVAL:  DATE: 08-29-64 | OPERATION CONSOLE MAIN ASSY |
| | | MASS APPROVAL:  DATE: 08-29-64 | REL. COORD. CEN. NO. 449556 |
| | | REL. COORD. CEN. NO. 2040420 | SCALE 1/8"=1'-0" SHEET 1 OF 1 |
| NEXT ASSY USED ON APPLICATION | | | |

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PARTIAL VIEW E-E

PARTIAL VIEW F-F

VIEW C-C
ROTATED 90° CCW
WITH DOOR REMOVED
SEE SHEET 1PARTIAL VIEW D-D
ROTATED 30° CW

RED-BLUE GREEN YELLOW

70 71 72 73 74 75 76 77 78 79 80 81 82 83

84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

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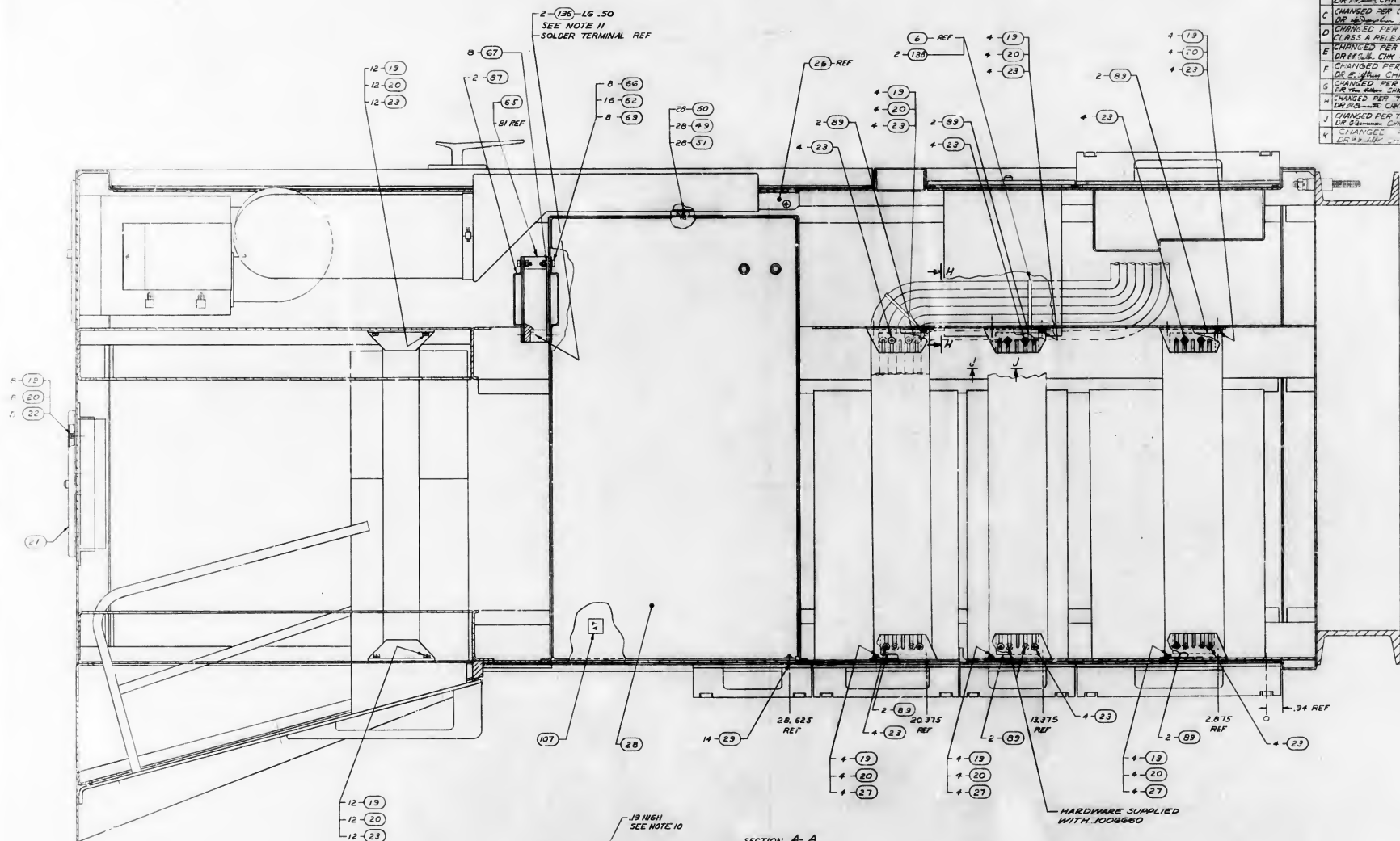
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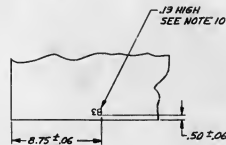
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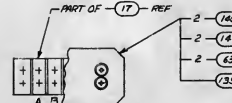
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SECTION A-A
ROTATED 90° CCW
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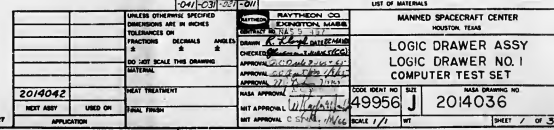


PARTIAL VIEW H-H
SCALE 1/4"



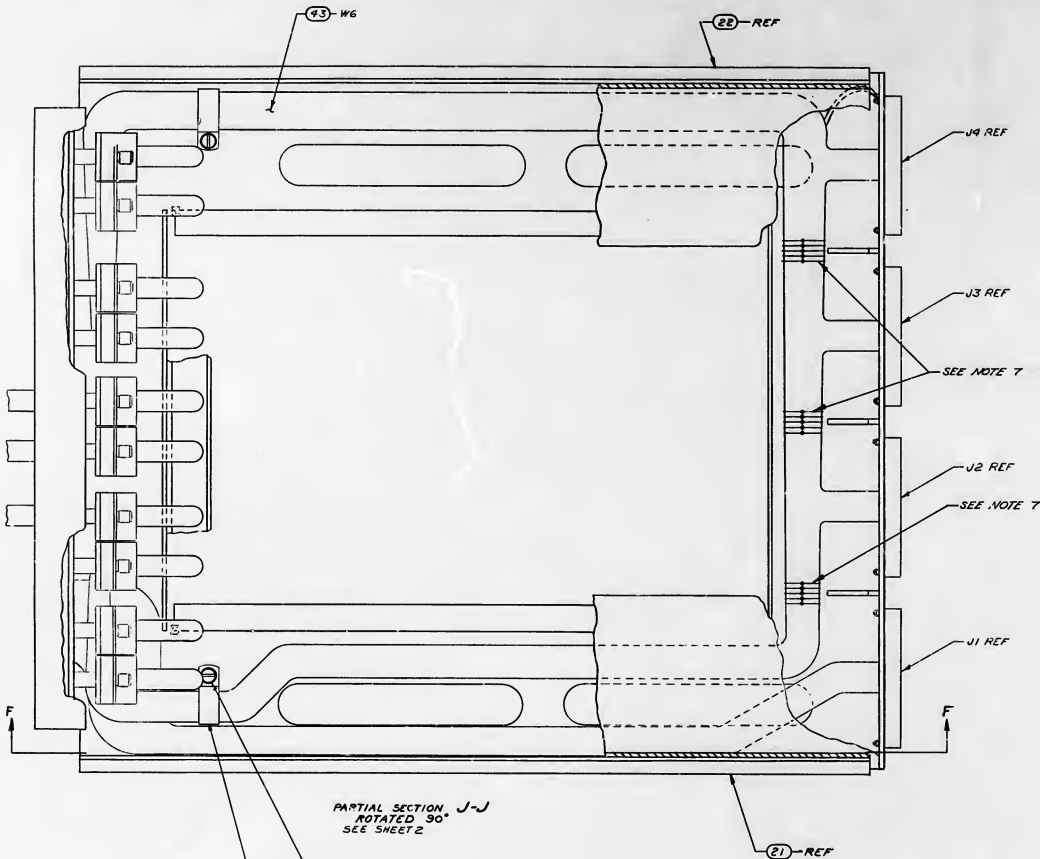
PARTIAL VIEW J-J
SCALE 1/1

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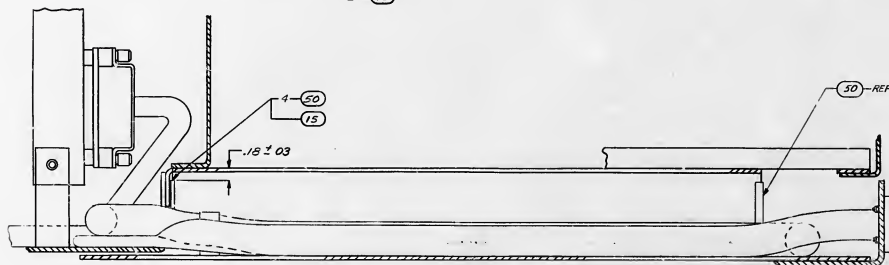


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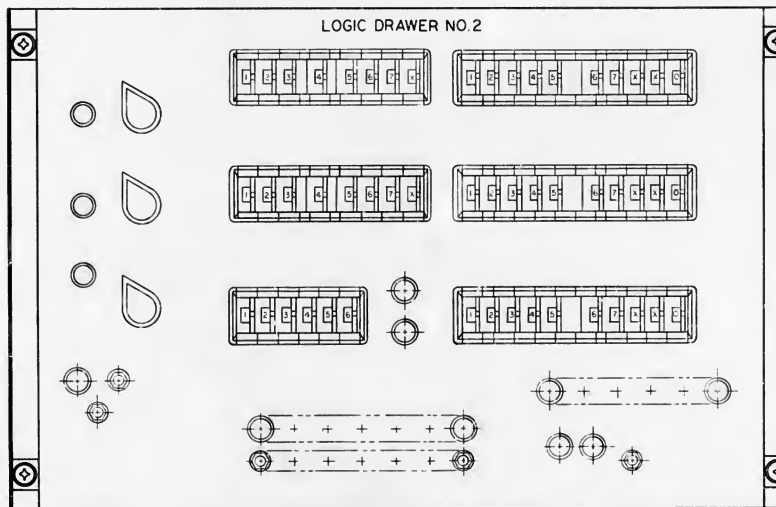
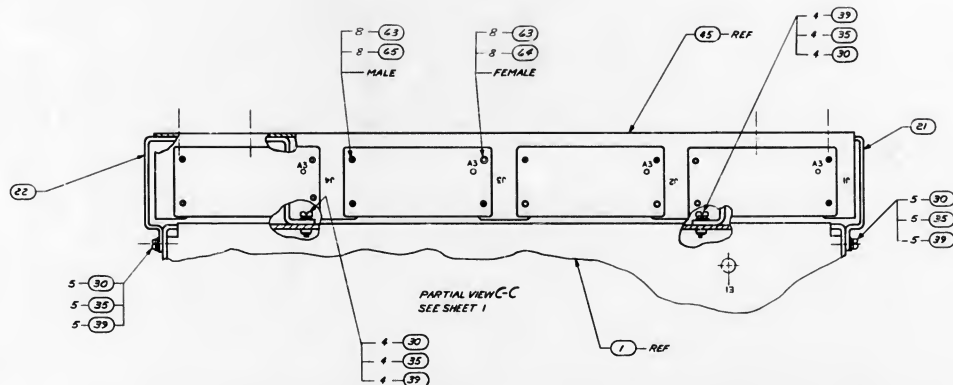
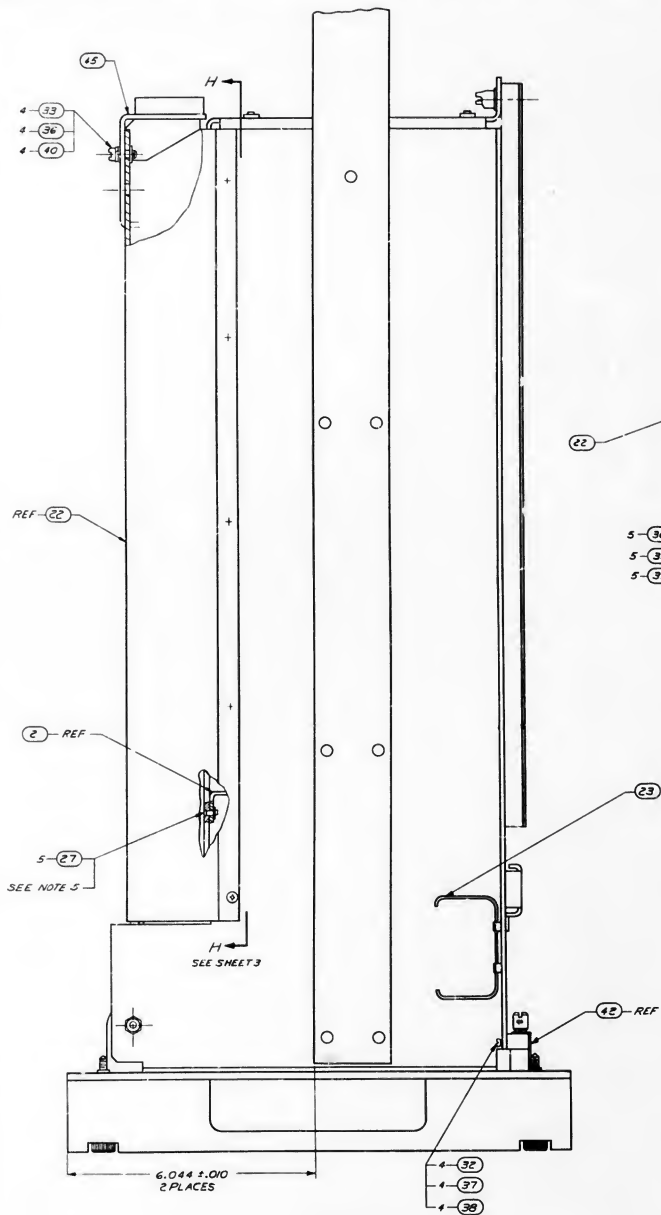
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| 2 | CHANGED PER CCA 25122 | 2/1/60 |
| 3 | DR J18 CHN 25122 APPD 1/1/60 | 2/1/60 |
| 4 | CLASS B CHANGED PER CCARS508 | 2/1/60 |
| 5 | CHANGED PER CCA 25044 CC-155 | 2/1/60 |
| 6 | A RELEASED PER TORR 25122 | 2/1/60 |
| 7 | CHANGED PER TORR 25000 | 2/1/60 |
| 8 | DR J18 CHN 25122 APPD 1/1/60 | 2/1/60 |
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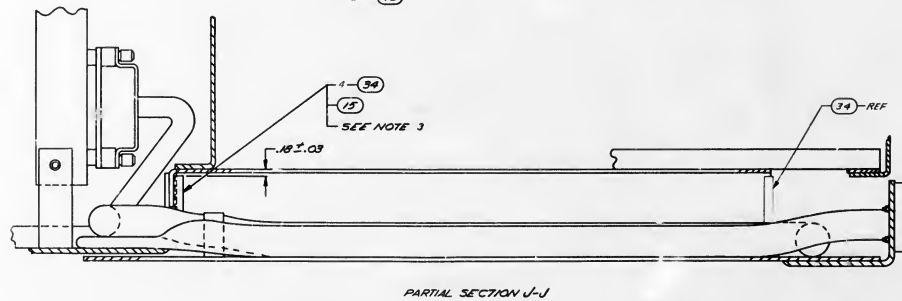
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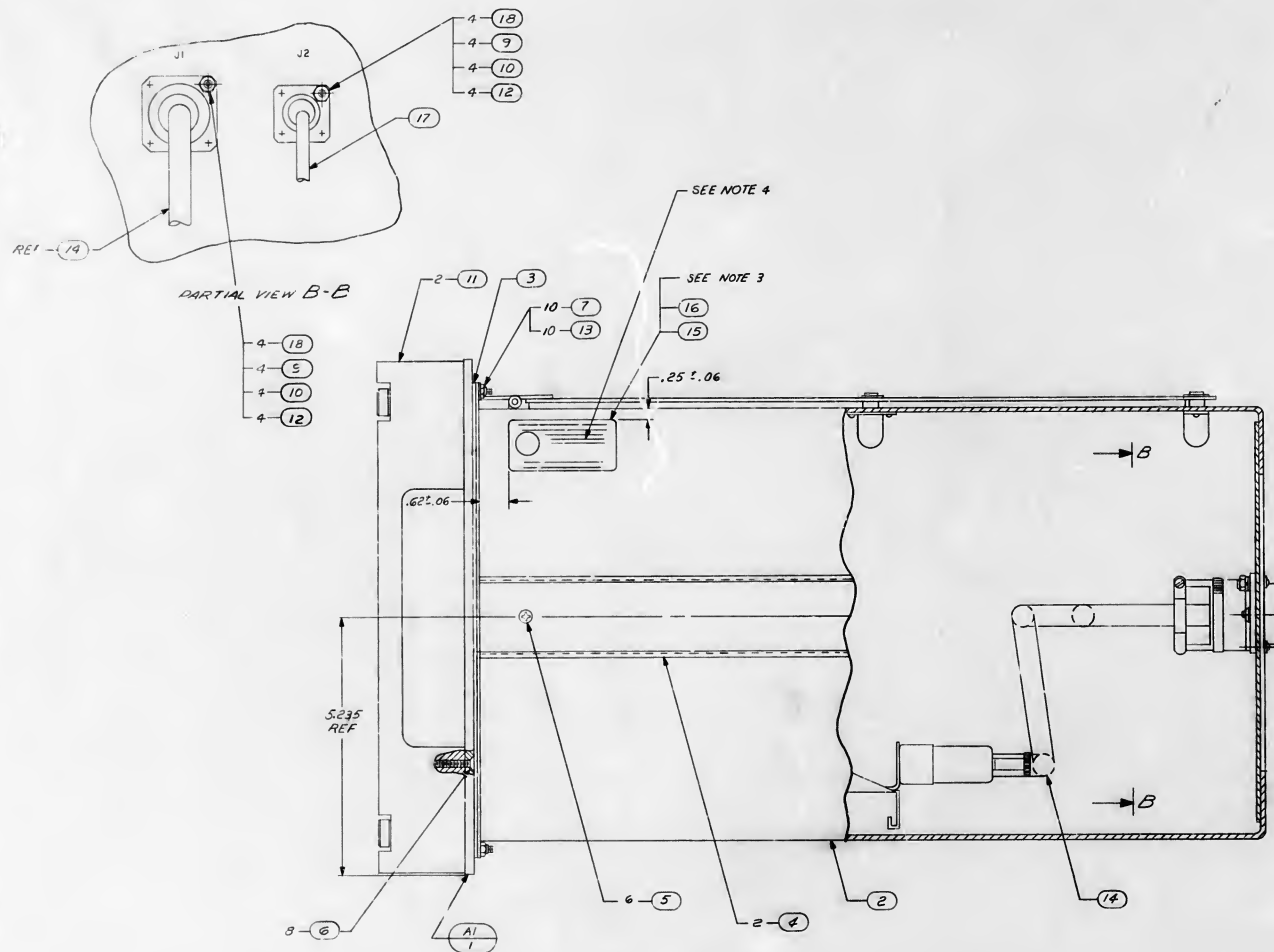
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REVISIONS

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| 0 | RELEASED PER CCA 25139 | 9/24/68 | |
| 1 | CHANGED PER CCA 25529 | 10/24/68 | |
| 2 | CHANGED PER CCA 25525 | 11/1/68 | |
| 3 | DR P3 under CHA 25525 | 11/1/68 | |
| 4 | CLASS A RELEASED PER TDAR 25471 | 11/1/68 | |
| A | CHANGED PER TDAR 26240 | 11/1/68 | |
| B | CHANGED PER TDAR 26679 | 11/1/68 | |
| C | DR P3 under CHA 25525 | 11/1/68 | |



NOTES

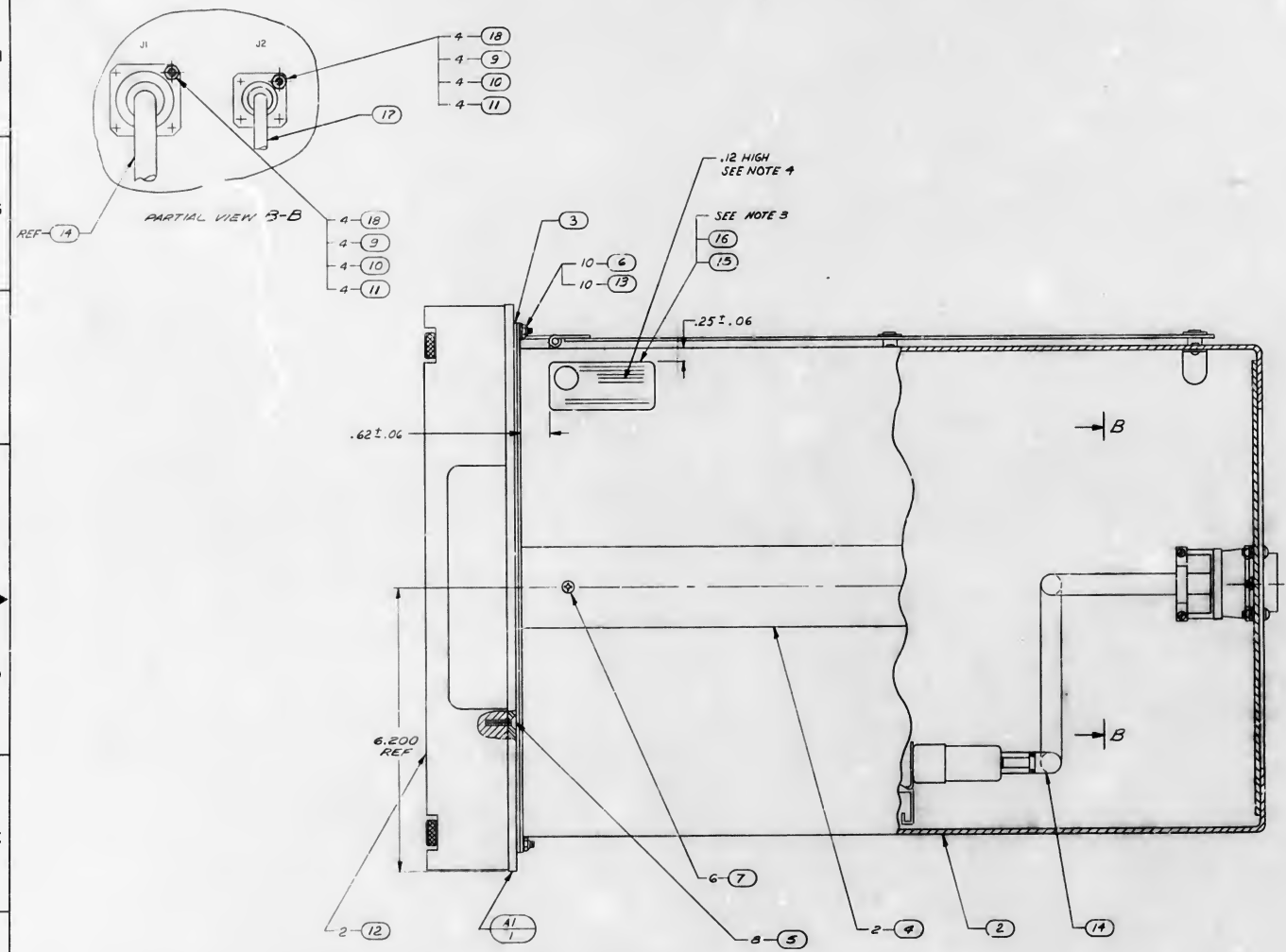
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. DR DENOTES AS REQUIRED
3. BOND USING FINE NO. 15
4. SERIALIZE PER NDI002023
5. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATIONS PREFIX WITH SUB-ASSEMBLY DESIGNATION

| QTY | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |
|-----|-------------------------|-----------------------------|----------|
| 1 | 2014130 | INTERCONNECTION DIAGRAM | REF |
| 8 | M551959-15 | SCREW, FLAT HD | 18 |
| 1 | 2014190-01 | CABLE ASSY, W# | 17 |
| 1 | 1004260-244 | PLATE, IDENT APOLLO GEN | 16 |
| NR | MIL-A-5092 | CEMENT | 15 |
| 1 | 2014193-011 | TABER ASSY W1 | 14 |
| 10 | M515795-807 | WASHER, FLAT | 13 |
| 8 | M535649-49 | NUT, PLAIN | 12 |
| 2 | 1014915-3 | HANDLE ASSY | 11 |
| 8 | M535337-78 | WASHER, LOCK | 10 |
| 8 | M515795-808 | WASHER, FLAT | 9 |
| 1 | M551959-15 | SCREW, MACH, PAN HD | 8 |
| 10 | M520441008 | NUT, SELF-LOCKING | 7 |
| 8 | M551959-05 | SCREW, MACH, FLAT HD | 6 |
| 6 | M551959-60 | SCREW, MACH, PAN HD | 5 |
| 2 | 20146353 | SLIDE, CHASSIS | 4 |
| 1 | 1026667-2 | GASKET | 3 |
| 1 | 2014374 | COVER ASSY (RF SHIELD) | 2 |
| 1 | 1006454 | TAPE READER | 1 |

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| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS .005 .010 .015 .020 .030 .040 .050 .060 .070 .080 .090 .100 .110 .120 .130 .140 .150 .160 .170 .180 .190 .200 .210 .220 .230 .240 .250 .260 .270 .280 .290 .300 .310 .320 .330 .340 .350 .360 .370 .380 .390 .400 .410 .420 .430 .440 .450 .460 .470 .480 .490 .500 .510 .520 .530 .540 .550 .560 .570 .580 .590 .600 .610 .620 .630 .640 .650 .660 .670 .680 .690 .700 .710 .720 .730 .740 .750 .760 .770 .780 .790 .800 .810 .820 .830 .840 .850 .860 .870 .880 .890 .900 .910 .920 .930 .940 .950 .960 .970 .980 .990 .1000 .1001 .1002 .1003 .1004 .1005 .1006 .1007 .1008 .1009 .1010 .1011 .1012 .1013 .1014 .1015 .1016 .1017 .1018 .1019 .1020 .1021 .1022 .1023 .1024 .1025 .1026 .1027 .1028 .1029 .1030 .1031 .1032 .1033 .1034 .1035 .1036 .1037 .1038 .1039 .1040 .1041 .1042 .1043 .1044 .1045 .1046 .1047 .1048 .1049 .1050 .1051 .1052 .1053 .1054 .1055 .1056 .1057 .1058 .1059 .1060 .1061 .1062 .1063 .1064 .1065 .1066 .1067 .1068 .1069 .1070 .1071 .1072 .1073 .1074 .1075 .1076 .1077 .1078 .1079 .1080 .1081 .1082 .1083 .1084 .1085 .1086 .1087 .1088 .1089 .1090 .1091 .1092 .1093 .1094 .1095 .1096 .1097 .1098 .1099 .1100 .1101 .1102 .1103 .1104 .1105 .1106 .1107 .1108 .1109 .1110 .1111 .1112 .1113 .1114 .1115 .1116 .1117 .1118 .1119 .1120 .1121 .1122 .1123 .1124 .1125 .1126 .1127 .1128 .1129 .1130 .1131 .1132 .1133 .1134 .1135 .1136 .1137 .1138 .1139 .1140 .1141 .1142 .1143 .1144 .1145 .1146 .1147 .1148 .1149 .1150 .1151 .1152 .1153 .1154 .1155 .1156 .1157 .1158 .1159 .1160 .1161 .1162 .1163 .1164 .1165 .1166 .1167 .1168 .1169 .1170 .1171 .1172 .1173 .1174 .1175 .1176 .1177 .1178 .1179 .1180 .1181 .1182 .1183 .1184 .1185 .1186 .1187 .1188 .1189 .1190 .1191 .1192 .1193 .1194 .1195 .1196 .1197 .1198 .1199 .1200 .1201 .1202 .1203 .1204 .1205 .1206 .1207 .1208 .1209 .1210 .1211 .1212 .1213 .1214 .1215 .1216 .1217 .1218 .1219 .1220 .1221 .1222 .1223 .1224 .1225 .1226 .1227 .1228 .1229 .1230 .1231 .1232 .1233 .1234 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.2397 .2398 .2399 .2400 .2401 .2402 .2403 .2404 .2405 .2406 .2407 .2408 .2409 .2410 .2411 .2412 .2413 .2414 .2415 .2416 .2417 .2418 .2419 .2420 .2421 .2422 .2423 .2424 .2425 .2426 .2427 .2428 .2429 .2430 .2431 .2432 .2433 .2434 .2435 .2436 .2437 .2438 .2439 .2440 .2441 .2442 .2443 .2444 .2445 .2446 .2447 .2448 .2449 .2450 .2451 .2452 .2453 .2454 .2455 .2456 .2457 .2458 .2459 .2460 .2461 .2462 .2463 .2464 .2465 .2466 .2467 .2468 .2469 .2470 .2471 .2472 .2473 .2474 .2475 .2476 .2477 .2478 .2479 .2480 .2481 .2482 .2483 .2484 .2485 .2486 .2487 .2488 .2489 .2490 .2491 .2492 .2493 .2494 .2495 .2496 .2497 .2498 .2499 .2500 .2501 .2502 .2503 .2504 .2505 .2506 .2507 .2508 .2509 .2510 .2511 .2512 .2513 .2514 .2515 .2516 .2517 .2518 .2519 .2520 .2521 .2522 .2523 .2524 .2525 .2526 .2527 .2528 .2529 .2530 .2531 .2532 .2533 .2534 .2535 .2536 .2537 .2538 .2539 .2540 .2541 .2542 .2543 .2544 .2545 .2546 .2547 .2548 .2549 .2550 .2551 .2552 .2553 .2554 .2555 .2556 .2557 .2558 .2559 .2560 .2561 .2562 .2563 .2564 .2565 .2566 .2567 .2568 .2569 .2570 .2571 .2572 .2573 .2574 .2575 .2576 .2577 .2578 .2579 .2580 .2581 .2582 .2583 .2584 .2585 .2586 .2587 .2588 .2589 .2590 .2591 .2592 .2593 .2594 .2595 .2596 .2597 .2598 .2599 .2600 .2601 .2602 .2603 .2604 .2605 .2606 .2607 .2608 .2609 .2610 .2611 .2612 .2613 .2614 .2615 .2616 .2617 .2618 .2619 .2620 .2621 .2622 .2623 .2624 .2625 .2626 .2627 .2628 .2629 .2630 .2631 .2632 .2633 .2634 .2635 .2636 .2637 .2638 .2639 .2640 .2641 .2642 .2643 .2644 .2645 .2646 .2647 .2648 .2649 .2650 .2651 .2652 .2653 .2654 .2655 .2656 .2657 .2658 .2659 .2660 .2661 .2662 .2663 .2664 .2665 .2666 .2667 .2668 .2669 .2670 .2671 .2672 .2673 .2674 .2675 .2676 .2677 .2678 .2679 .2680 .2681 .2682 .2683 .2684 .2685 .2686 .2687 .2688 .2689 .2690 .2691 .2692 .2693 .2694 .2695 .2696 .2697 .2698 .2699 .2700 .2701 .2702 .2703 .2704 .2705 .2706 .2707 .2708 .2709 .2710 .2711 .2712 .2713 .2714 .2715 .2716 .2717 .2718 .2719 .2720 .2721 .2722 .2723 .2724 .2725 .2726 .2727 .2728 .2729 .2730 .2731 .2732 .2733 .2734 .2735 .2736 .2737 .2738 .2739 .2740 .2741 .2742 .2743 .2744 .2745 .2746 .2747 .2748 .2749 .2750 .2751 .2752 .2753 .2754 .2755 .2756 .2757 .2758 .2759 .2760 .2761 .2762 .2763 .2764 .2765 .2766 .2767 .2768 .2769 .2770 .2771 .2772 .2773 .2774 .2775 .2776 .2777 .2778 .2779 .2780 .2781 .2782 .2783 .2784 .2785 .2786 .2787 .2788 .2789 .2790 .2791 .2792 .2793 .2794 .2795 .2796 .2797 .2798 .2799 .2800 .2801 .2802 .2803 .2804 .2805 .2806 .2807 .2808 .2809 .2810 .2811 .2812 .2813 .2814 .2815 .2816 .2817 .2818 .2819 .2820 .2821 .2822 .2823 .2824 .2825 .2826 .2827 .2828 .2829 .2830 .2831 .2832 .2833 .2834 .2835 .2836 .2837 .2838 .2839 .2840 .2841 .2842 .2843 .2844 .2845 .2846 .2847 .2848 .2849 .2850 .2851 .2852 .2853 .2854 .2855 .2856 .2857 .2858 .2859 .2860 .2861 .2862 .2863 .2864 .2865 .2866 .2867 .2868 .2869 .2870 .2871 .2872 .2873 .2874 .2875 .2876 .2877 .2878 .2879 .2880 .2881 .2882 .2883 .2884 .2885 .2886 .2887 .2888 .2889 .2890 .2891 .2892 .2893 .2894 .2895 .2896 .2897 .2898 .2899 .2900 .2901 .2902 .2903 .2904 .2905 .2906 .2907 .2908 .2909 .2910 .2911 .2912 .2913 .2914 .2915 .2916 .2917 .2918 .2919 .2920 .2921 .2922 .2923 .2924 .2925 .2926 .2927 .2928 .2929 .2930 .2931 .2932 .2933 .2934 .2935 .2936 .2937 .2938 .2939 .2940 .2941 .2942 .2943 .2944 .2945 .2946 .2947 .2948 .2949 .2950 .2951 .2952 .2953 .2954 .2955 .2956 .2957 .2958 .2959 .2960 .2961 .2962 .2963 .2964 .2965 .2966 .2967 .2968 .2969 .2970 .2971 .2972 .2973 .2974 .2975 .2976 .2977 .2978 .2979 .2980 .2981 .2982 .2983 .2984 .2985 .2986 .2987 .2988 .2989 .2990 .2991 .2992 .2993 .2994 .2995 .2996 .2997 .2998 .2999 .3000 .3001 .3002 .3003 .3004 .3005 .3006 .3007 .3008 .3009 .3010 .3011 .3012 .3013 .3014 .3015 .3016 .3017 .3018 .3019 .3020 .3021 .3022 .3023 .3024 .3025 .3026 .3027 .3028 .3029 .3030 .3031 .3032 .3033 .3034 .3035 .3036 .3037 .3038 .3039 .3040 .3041 .3042 .3043 .3044 .3045 .3046 .3047 .3048 .3049 .3050 .3051 .3052 .3053 .3054 .3055 .3056 .3057 .305 | |
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2014039

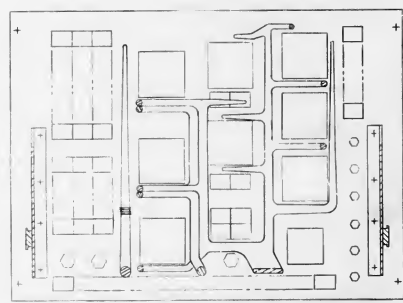
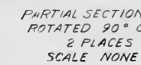
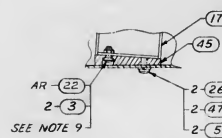
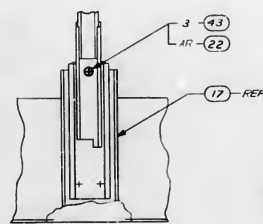
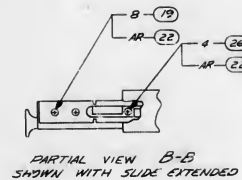
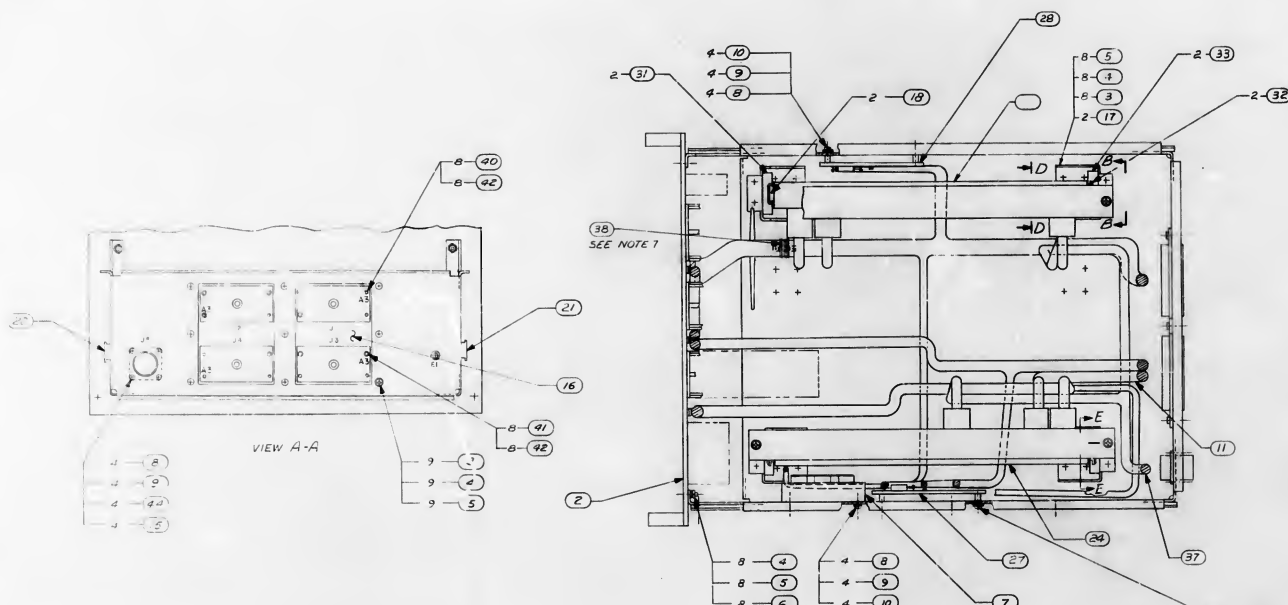
| REVISIONS | | DATE | APPROVED |
|-----------|---------------------------------------------------------|---------|------------|
| 0 | RELEASED PER CCA 25139 | 9/25/64 | J. Hanning |
| 1 | CHANGED PER CCA R25525 DR B. B. CH. APPD. (initials) | 10/1/64 | |
| - | CLASS. A RELEASED PER TORR 25072 | | |
| A | CHANGED PER TORR 26240 DR J. J. CH. APPD. P. F. D. | 11/1/64 | |
| B | CHANGED PER TORR 26679 DR J. J. CH. APPD. P. F. D. | 11/1/64 | |
| C | CHANGED PER TORR 26695 DR J. J. CH. APPD. P. F. D. | 11/1/64 | |



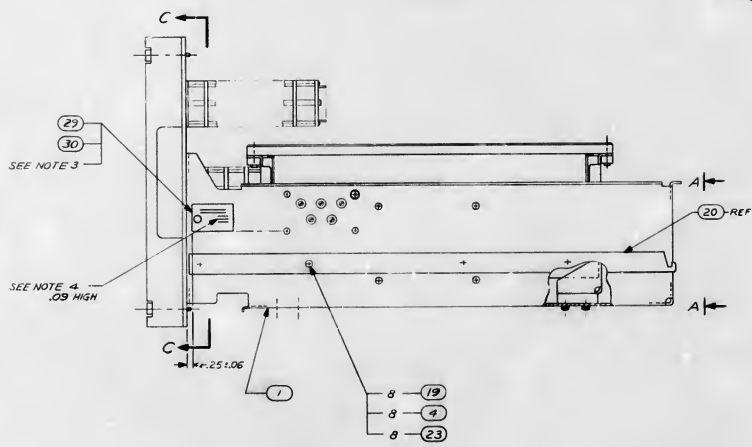
NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. AIR DENOTES AS REQUIRED
3. BOND USING FINE NO. 15
4. SERIALIZE PER MD1003023
5. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN, FOR COMPLETE DESIGNATIONS PREFIX WITH SUB-ASSEMBLY DESIGNATION

| QTY | PART OR IDENTIFYING NO. | DESCRIPTION | FINO NO. |
|-----|-------------------------|-------------------------|----------|
| 1 | 2014138 | INTERCONNECTING DIAGRAM | REF |
| 8 | M551959-15 | SCREW, FLAT HD | 18 |
| 1 | 2014138-01 | CABLE ASSY, #2 | 17 |
| 1 | 1004260-415 | PLATE, IDENT APOLLO GSN | 16 |
| 1 | MIL-A-1082 TYPE B | CEMENT | 15 |
| 1 | 2014138-01 | CABLE ASSY | 14 |
| 10 | M551795-807 | WASHER, FLAT | 13 |
| 2 | 104215-6 | HANDLE | 12 |
| 8 | M535649-44 | NUT, FLAIN | 11 |
| 8 | M551795-809 | WASHER, FLAT | 10 |
| 8 | M535237-78 | WASHER, LOCK | 9 |
| 4 | M551959-15 | SCREW, MACH, PAN HD | 8 |
| 6 | M551053-60 | SCREW, MACH, PAN HD | 7 |
| 10 | M551099C08 | NUT, SELF LOCKING | 6 |
| 8 | M551959-45 | SCREW, MACH, FLAT HD | 5 |
| 2 | 2016353 | SLIDE, CHASSIS | 4 |
| 1 | 1006667-1 | GASKET | 3 |
| 1 | 2014431 | COVER ASSY (RF SHIELD) | 2 |
| 1 | 1006483 | TAPE PUNCH | 1 |

| | | | | | |
|-----------------------------------------------------------------------------------------------------|--|----------------------------------|--|--------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES | | BAYTHORN CO. LEXINGTON, MASS. | | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| DRAWN BY: [initials] | | CHECKED BY: [initials] | | Tape Punch Assy | |
| DO NOT SCALE DRAWING | | APPROVAL: [initials] | | COMPUTER TEST SET | |
| MATERIAL | | NADA APPROVAL: [initials] | | CODE IDENT NO. 49956 F | |
| NEXT ASSY USED ON | | NADA APPROVAL: [initials] | | NADA DESIGN NO. 2014039 | |
| APPLICATION | | NADA APPROVAL: [initials] | | SHEET 1 OF 1 | |



SECTION C-C



| X | 2014179 | SCHEMATIC | REF |
|----|---------------|-----------------------------------|-----|
| X | 2014182 | LEAD, ELEC | |
| 4 | MS15735-806 | WASHER, FLAT | 27 |
| 4F | MS15735-806-1 | WASHER, FLAT, INSULATING COMPOUND | 27 |
| 2 | 2016333 | SPACER | 15 |
| 2 | MS15953-30 | SCREW, FLRT HD | 44 |
| 12 | MS15953-43 | SCREW, FLAT HD, CROSS-RECESSED | 43 |
| 16 | MS10636-003 | NUT, STGR | 16 |
| 5 | MS15737-204 | SCREW, GUIDE | 41 |
| 2 | MS106671-005 | PNL, CUD | 40 |
| 2 | MS106671-005 | WIRE, ELEC, BLK | 40 |
| AR | 2014466-004 | TAPE, LACING | 33 |
| 1 | 2014466-001 | WIRING, HARNESS, B | 37 |
| 1F | 2014466-001-1 | WIRING, HARNESS, C | 37 |
| 2 | MS106671-001 | WIRING, HARNESS, C | 35 |
| 2 | MS106671-001 | WIRING, HARNESS, E | 36 |
| 2 | 1006388-4 | SLIDE, RH CABINET SECTION | 21 |
| 2 | 1006389-2 | SLIDE, RH CABINET SECTION | 22 |
| 2 | 1006390-3 | SLIDE, LH CABINET SECTION | 21 |
| AR | MS104302-01 | NAME PLATE | 40 |
| 1 | 2014231-26 | NAME PLATE | 40 |
| 1 | 2014193-011 | COMPONENT, BD ASSY A5 | 17 |
| 1 | 20144391-011 | COMPONENT, BD ASSY A2 | 16 |
| 8 | MS15917-43 | SCREW, FLAT HD, CROSS-RECESSED | 43 |
| 1 | 2014378-011 | LOGIC ASSY, NO P | 60 |
| 1 | 2014378-011 | LOGIC ASSY, NO P | 60 |
| 2 | MS10438-08 | NUT, SELF-LOCKING | 23 |
| AR | MS10438-08 | SCALMS COMPOUND | 23 |
| 1 | 1006390-13 | SLIDE, LH CABINET SECTION | 21 |
| 1 | 1006390-12 | SLIDE, RH CABINET SECTION | 21 |
| 16 | MS15953-46 | SCREW, FLAT HD, CROSS-RECESSED | 43 |
| 1 | 2014378-011 | SCREW, FLAT HD, CROSS-RECESSED | 43 |
| 4 | 1014835-2 | SPACER ASSY | 17 |
| 1 | 2014349 | PLATE, CONNECTOR | 16 |
| 4 | MS15549-6-d | NUT, HEX | 15 |
| 2 | 1006372-001 | WIRING, INSULATION | 36 |
| 2 | 2014378-011 | WIRE, ELEC, WAT | 41 |

NOTES

1. MEMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. AR DENOTES AS REQUIRED
3. BOWL FND NO. 29 TO FIND NO. 1 USING FIND NO. 30
4. SERIALIZE PER IND0002023
5. C INDICATES MALE GUIDE PIN
6. D INDICATES FEMALE GUIDE SOCKET
7. FABRICATE PER IND000238 EXCEPT USE FIND NO. 38
8. ~~DO NOT USE THIS SOFT COATED (A) AND SIZE 6~~
9. ASSEMBLE FIND 3 & FIND 41 TO FIND 17 USING FIND 22

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1 DENOTES LENGTH IN FEET UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES .1 .0005 .0005 | | 011 METHOD CODE DRAWING: 100000 CONTRACT NO. 10-1-207 DRAWN BY: DATE: 10-1-207 CHECKED BY: DATE: 10-1-207 APPROVAL: <i>[Signature]</i> DATE: 10-1-207 REVISION: <i>[Signature]</i> DATE: 10-1-207 APPROVAL: <i>[Signature]</i> DATE: 10-1-207 | LIST OF MATERIALS MANAGED SPACECRAFT CENTER HOUSTON, TEXAS XY INTERFACE ASSY COMPUTER TEST SET |
| 2040402 NEXUS A51 UNITS ON | MATERIAL DO NOT SCALE DRAWING NADA APPROVAL: A.E. 10-1-207 MIL APPROVAL: <i>[Signature]</i> DATE: 10-1-207 | CODE IDENT NO 49956 | NADA DRAWING NO 2014040 UNIT: 1 of 1 |

